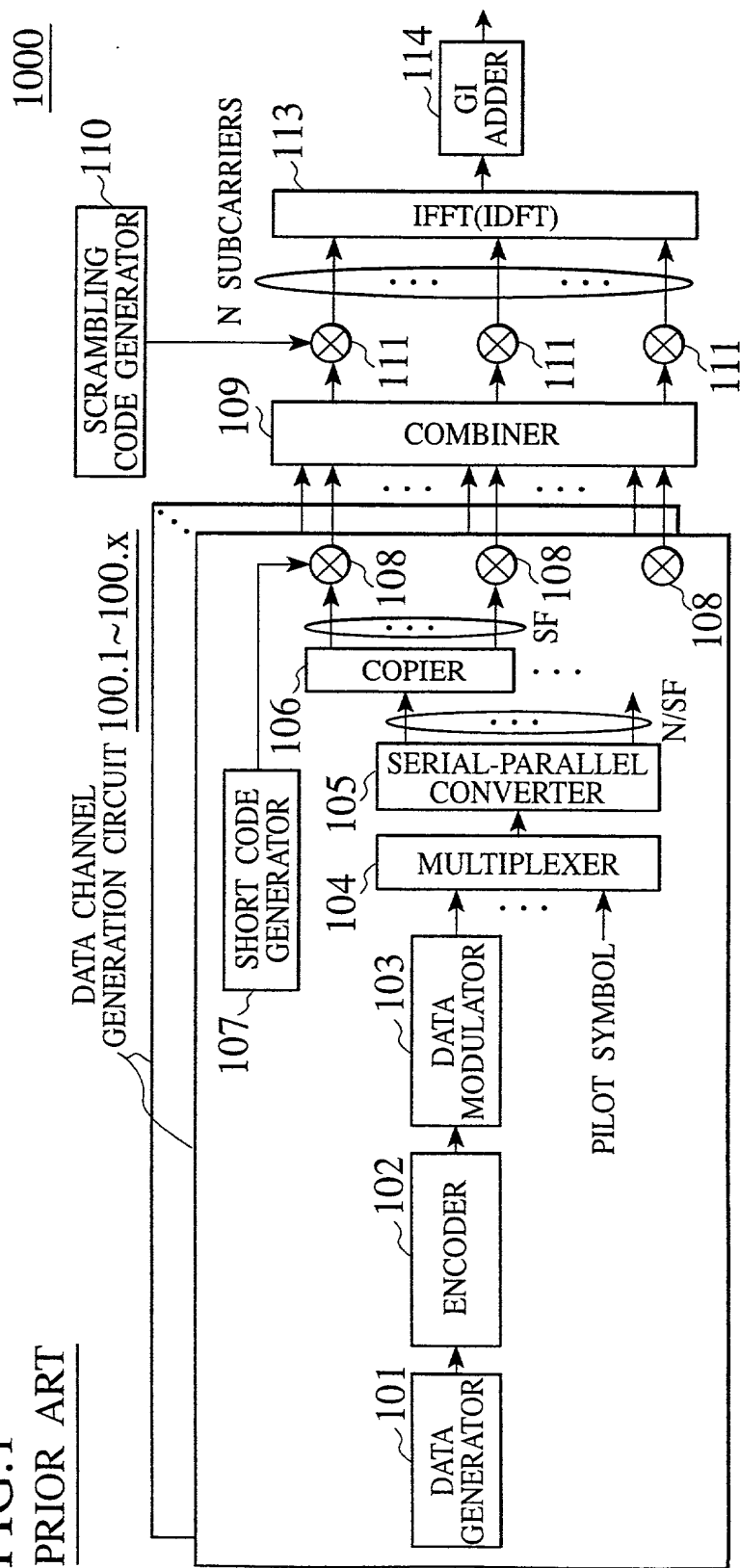
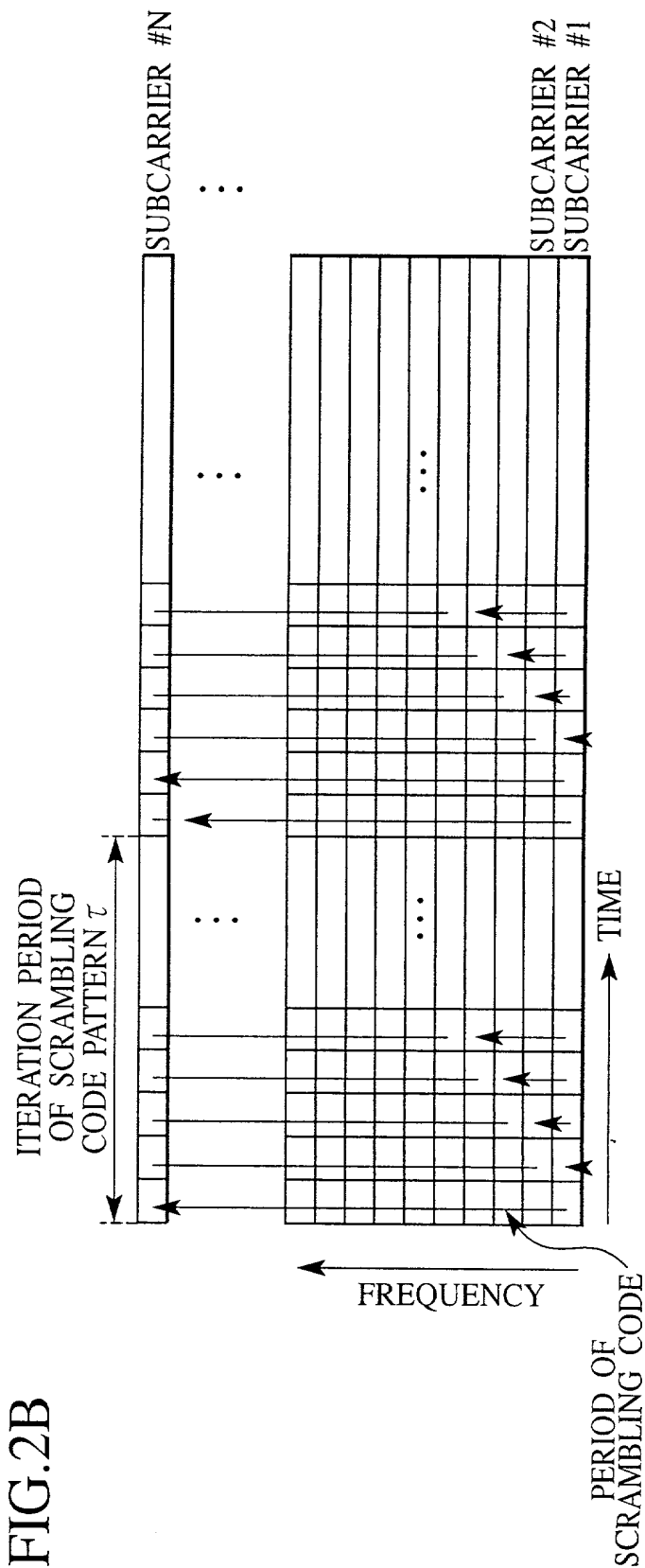
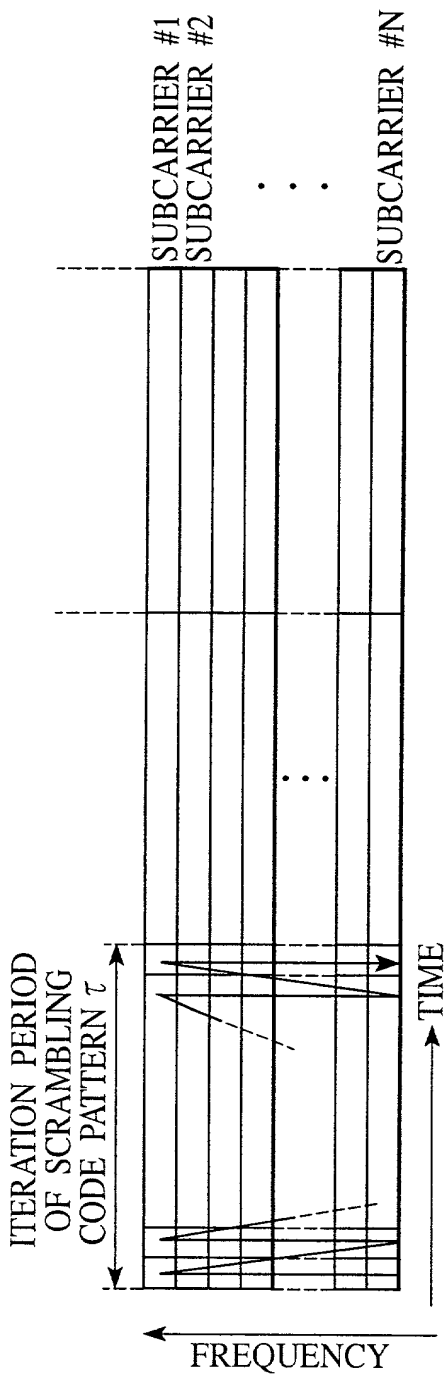


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FIG.1
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FIG.3

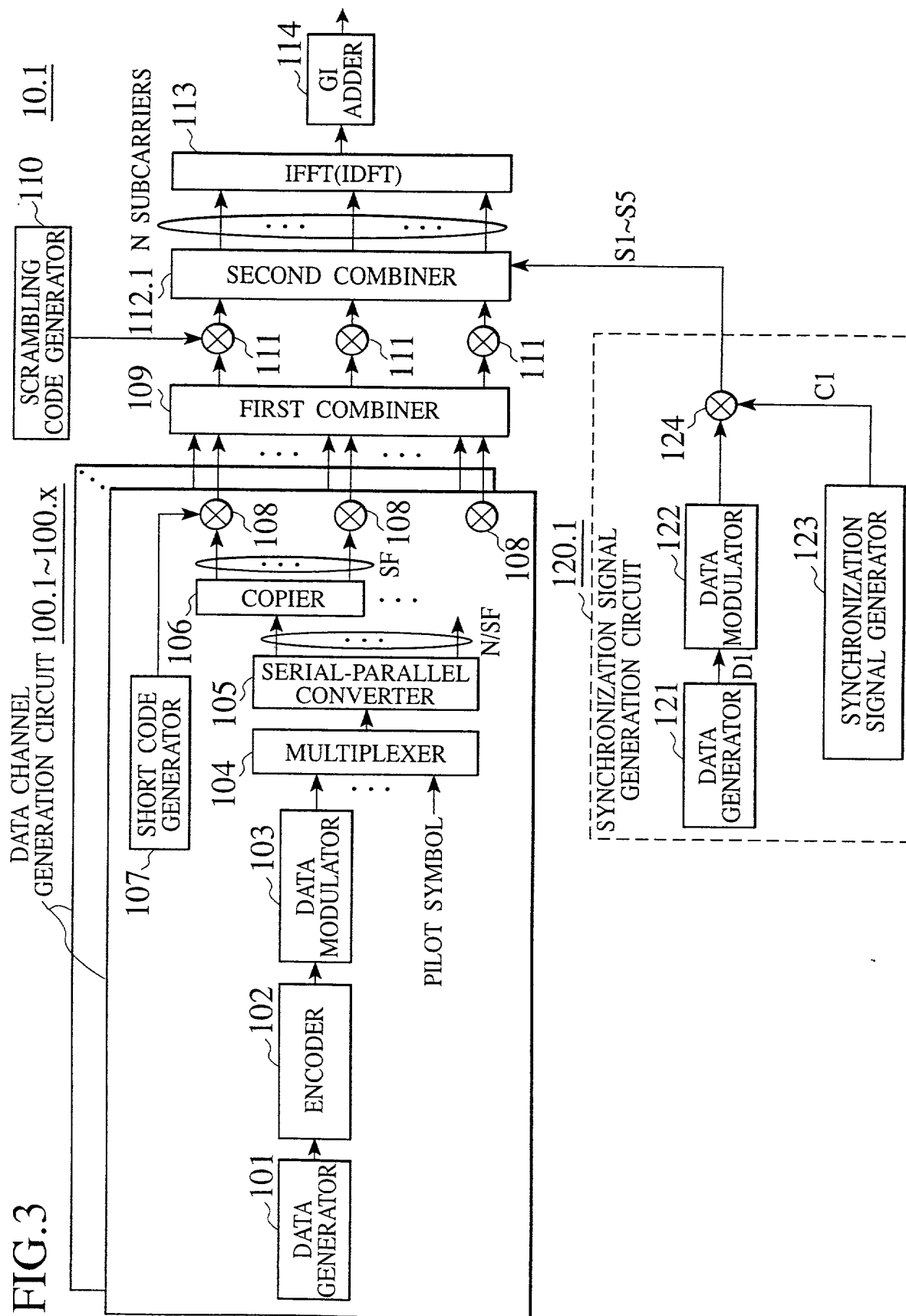


FIG.4A

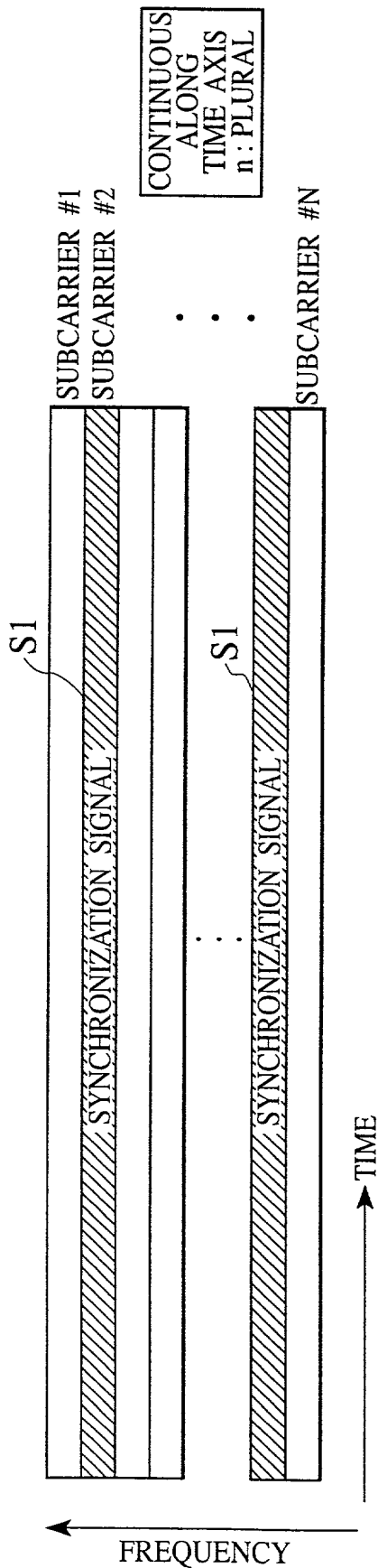
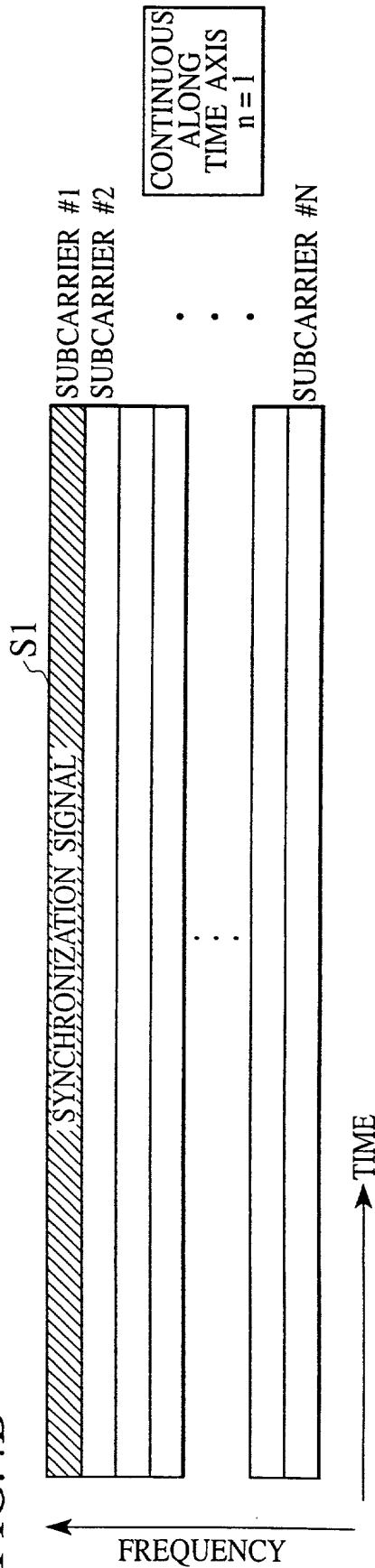
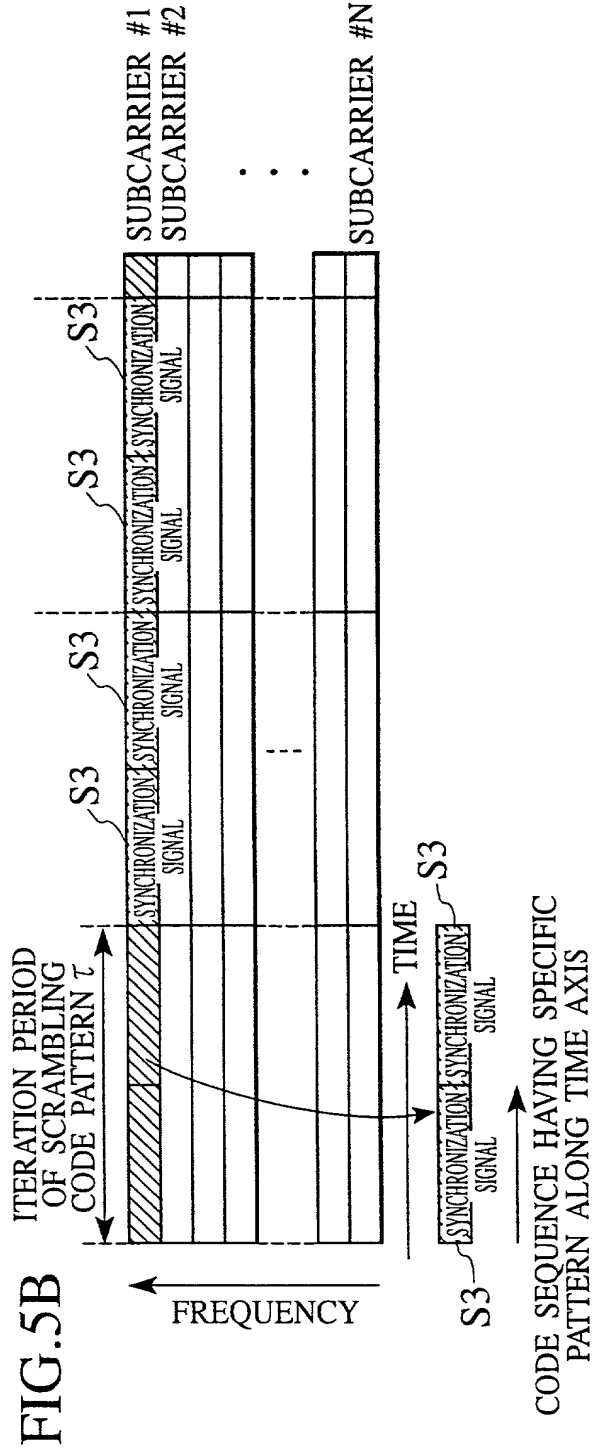
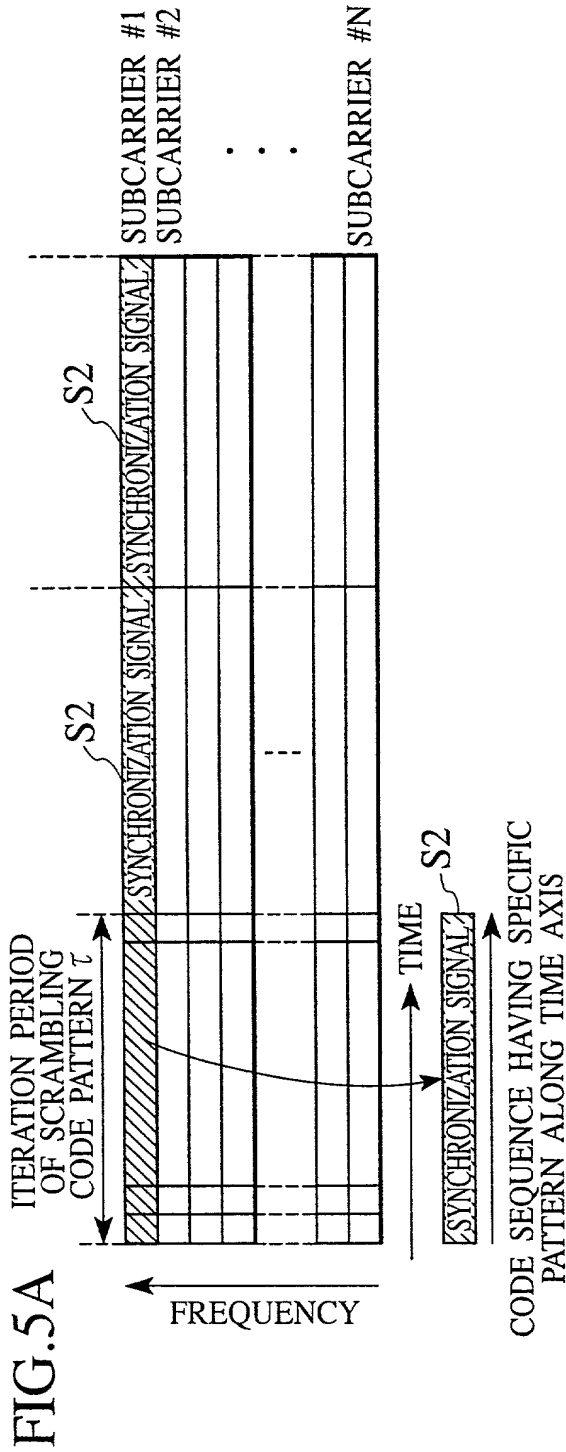
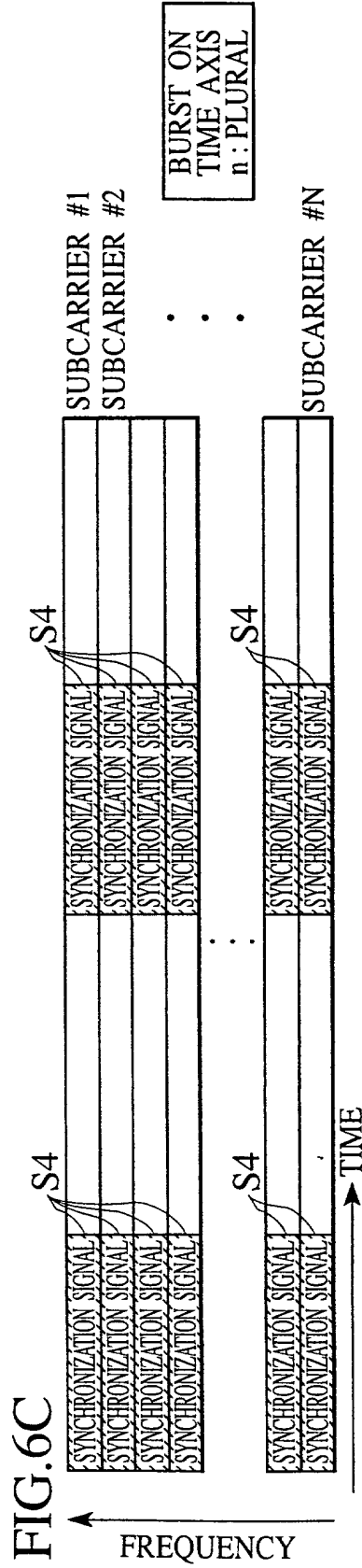
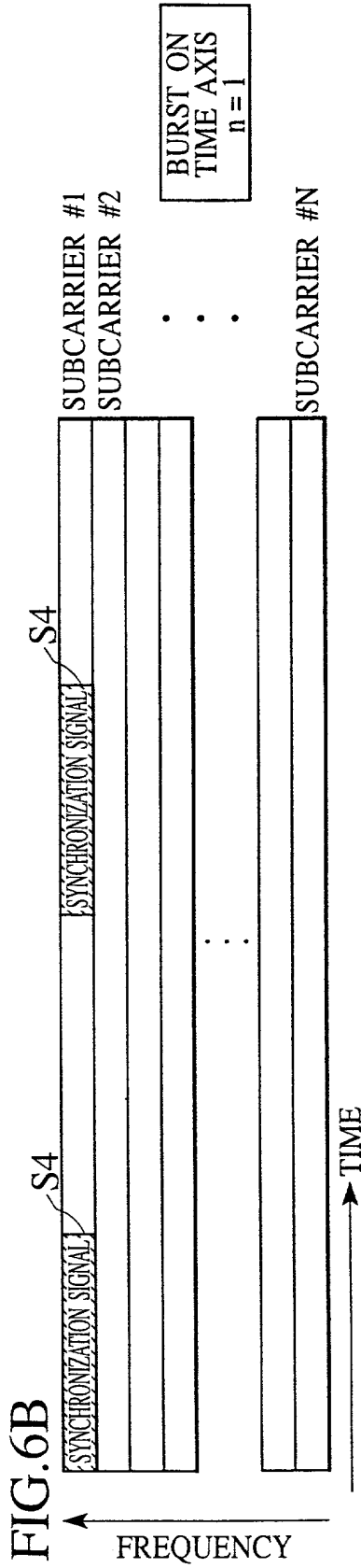
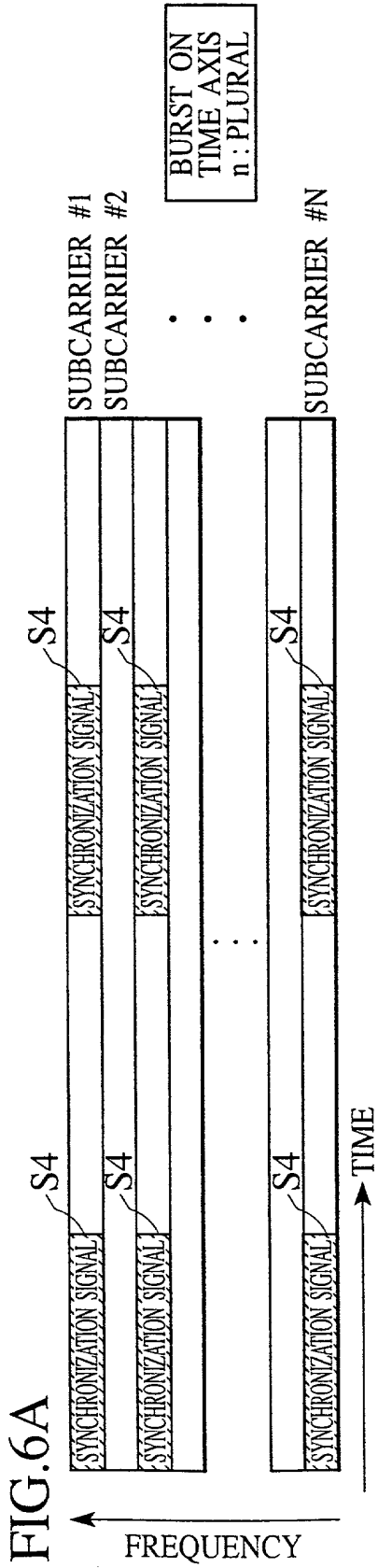
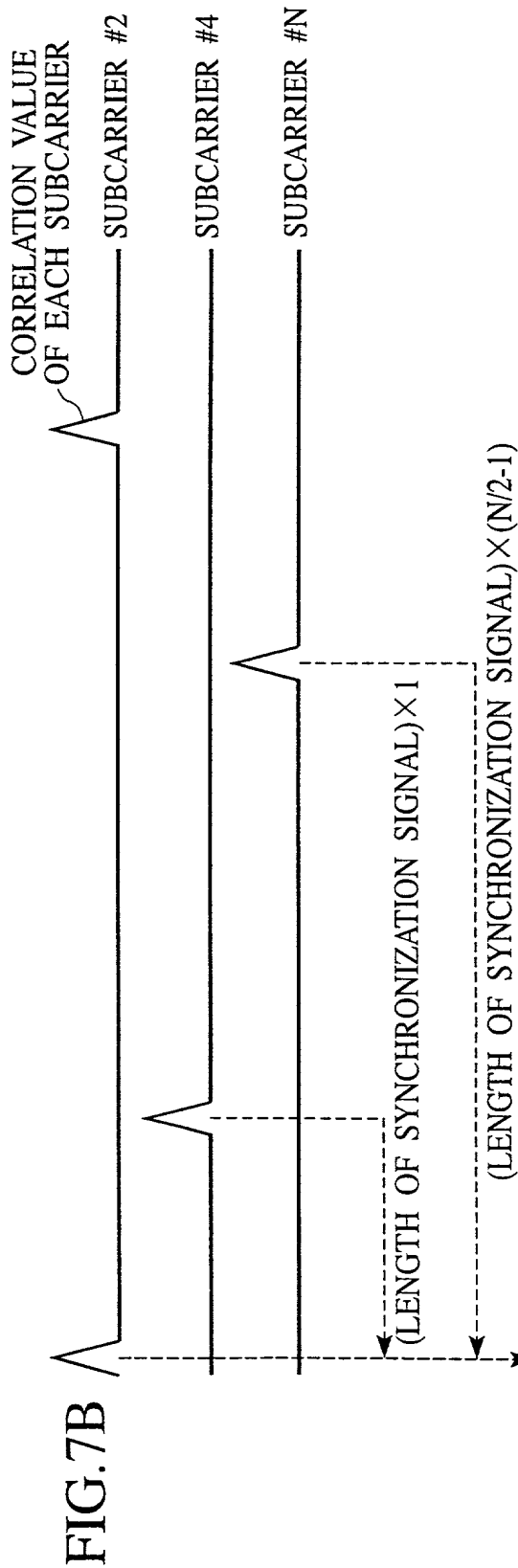
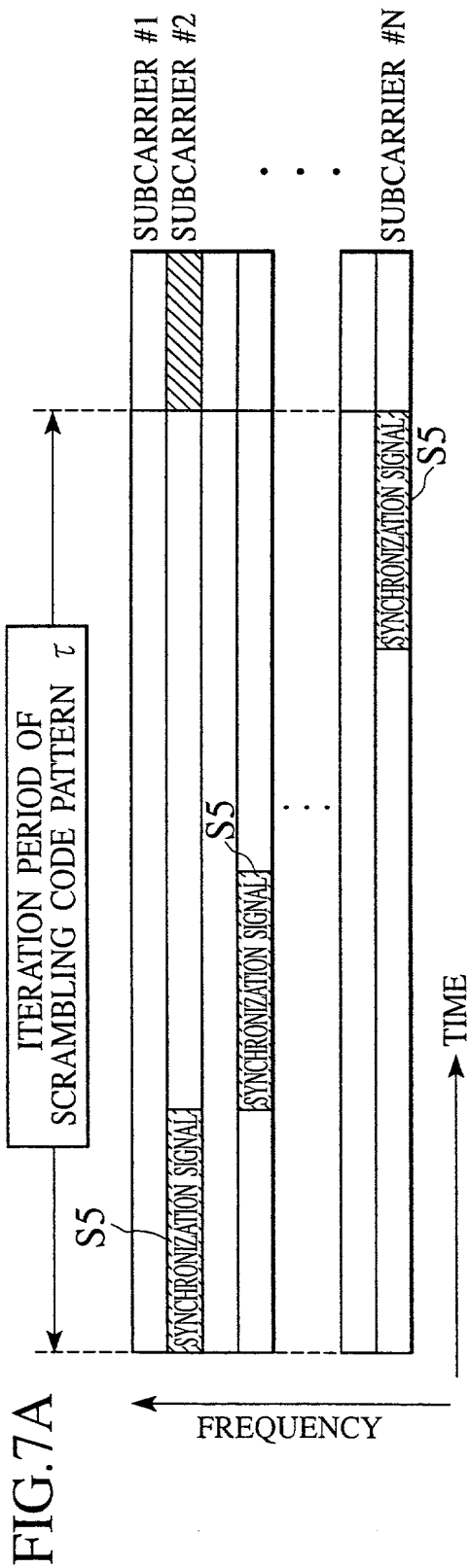


FIG.4B



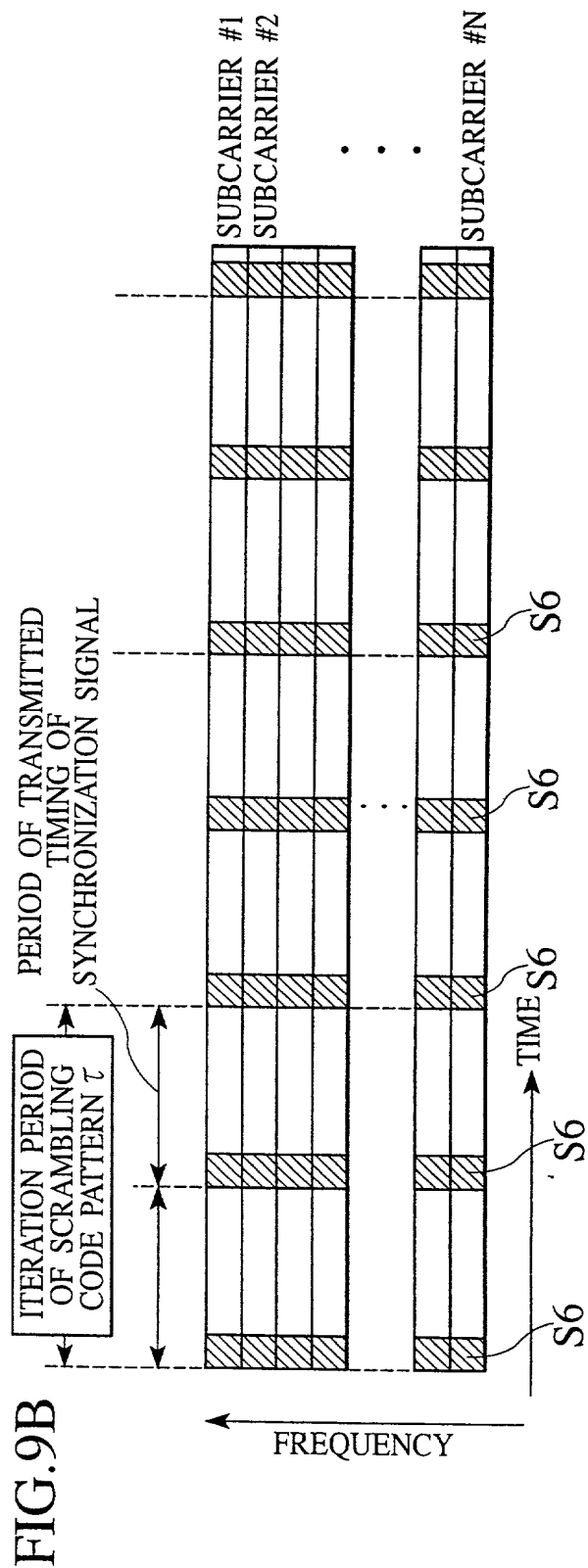
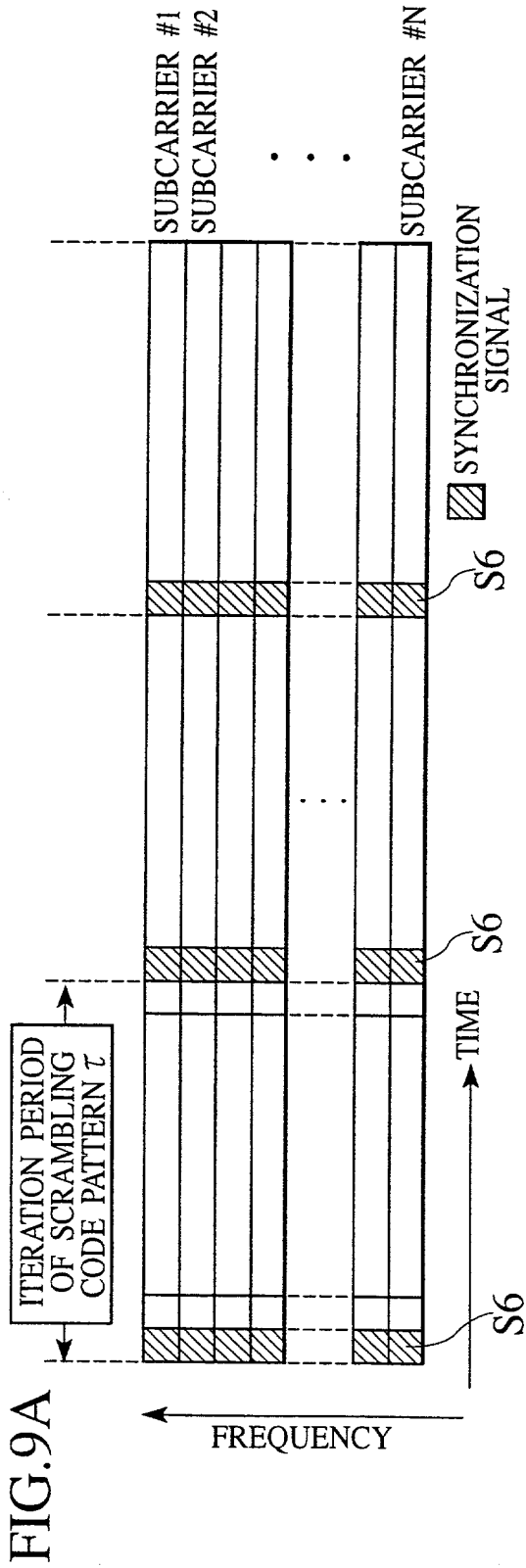






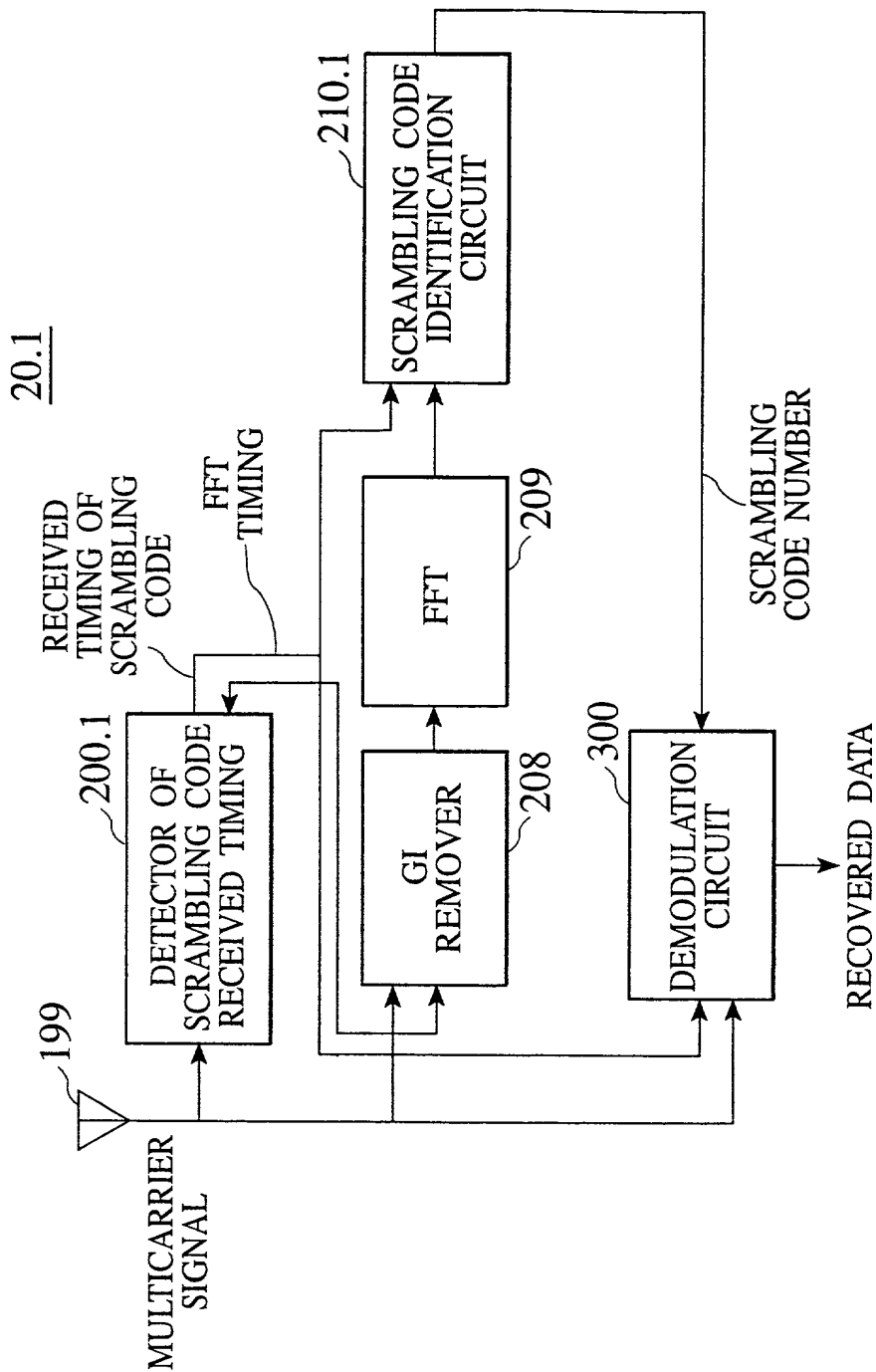
START TIMING OF
SCRAMBLING CODE
MULTIPLICATION

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FIG.10



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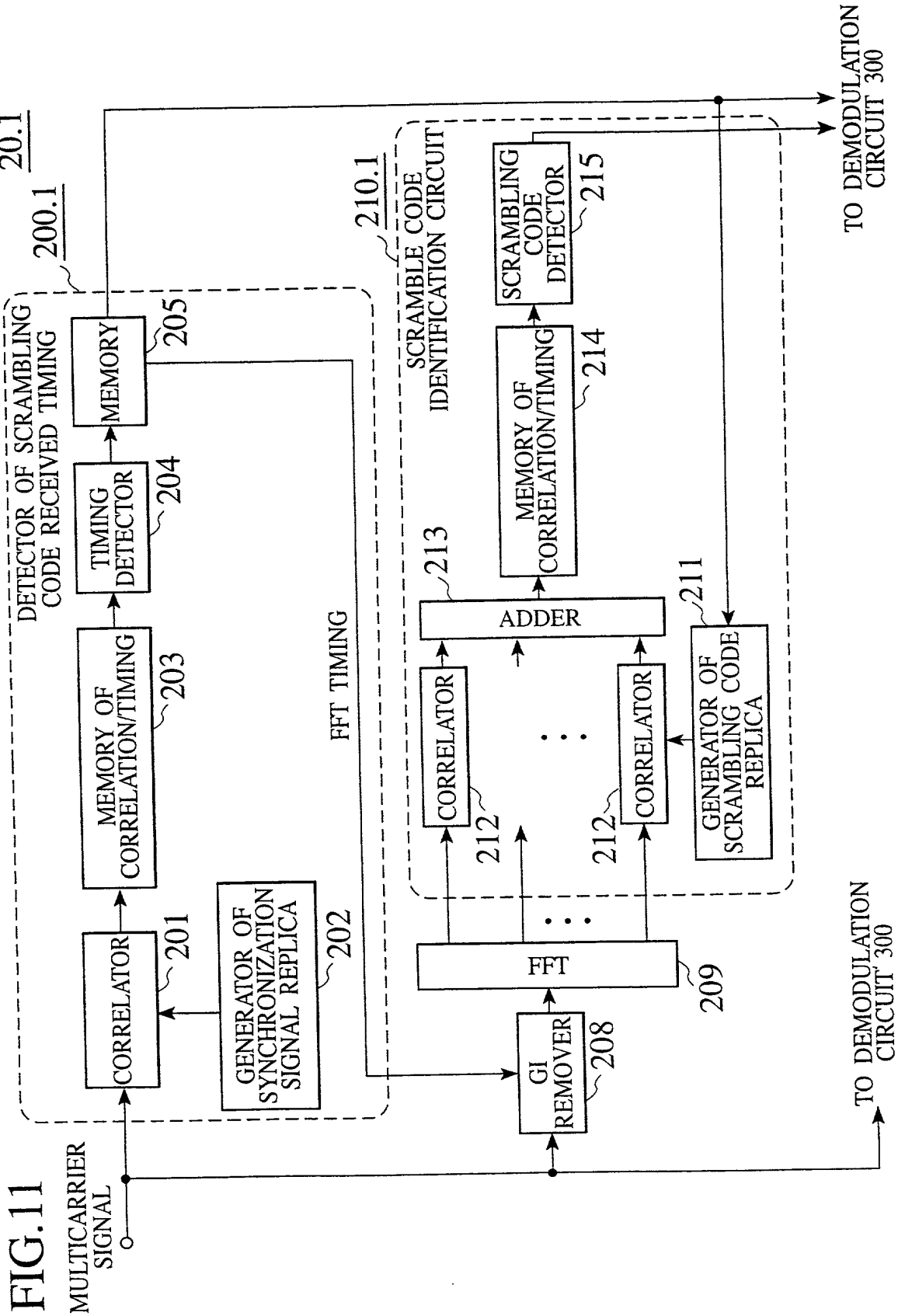
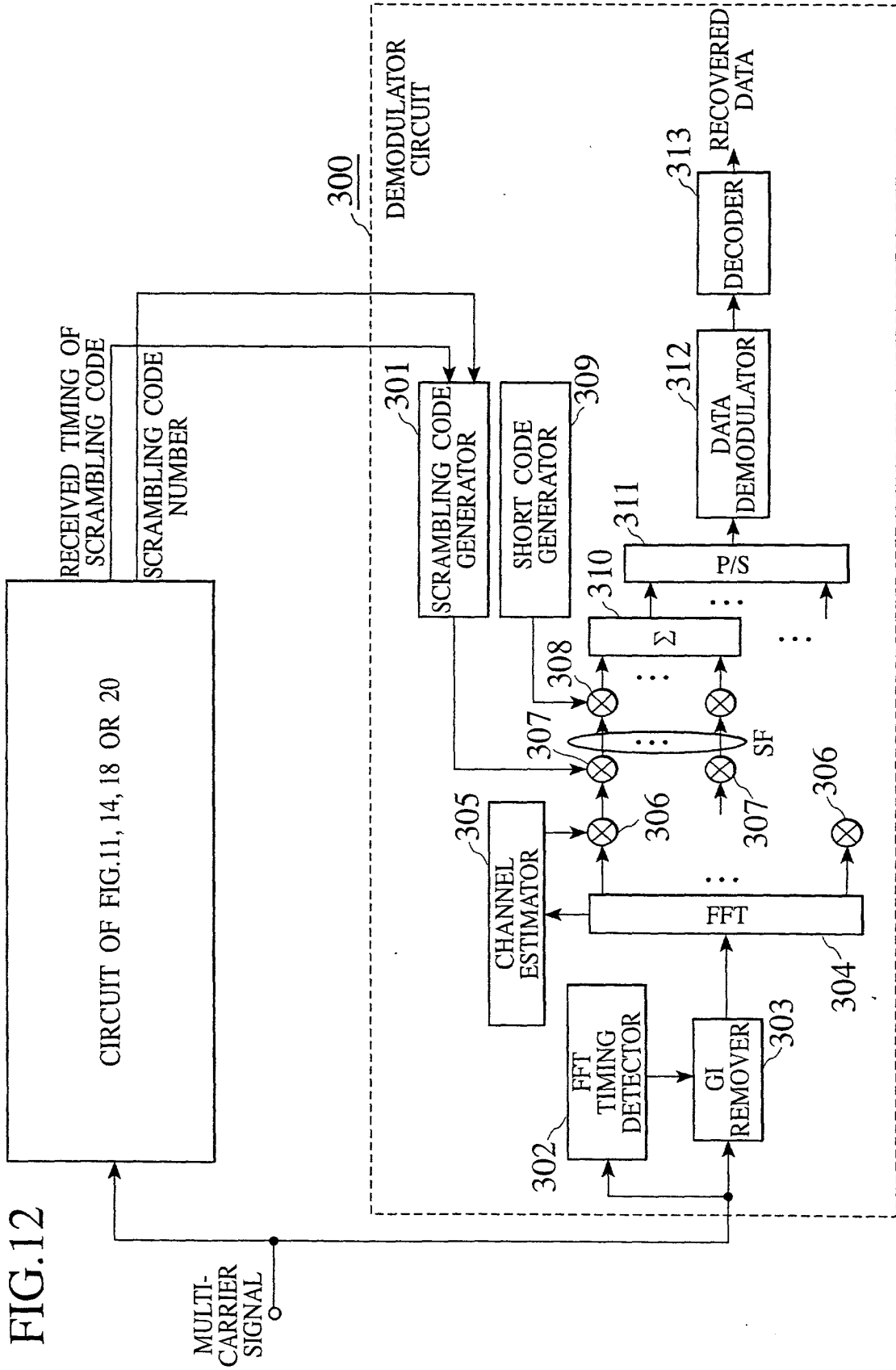


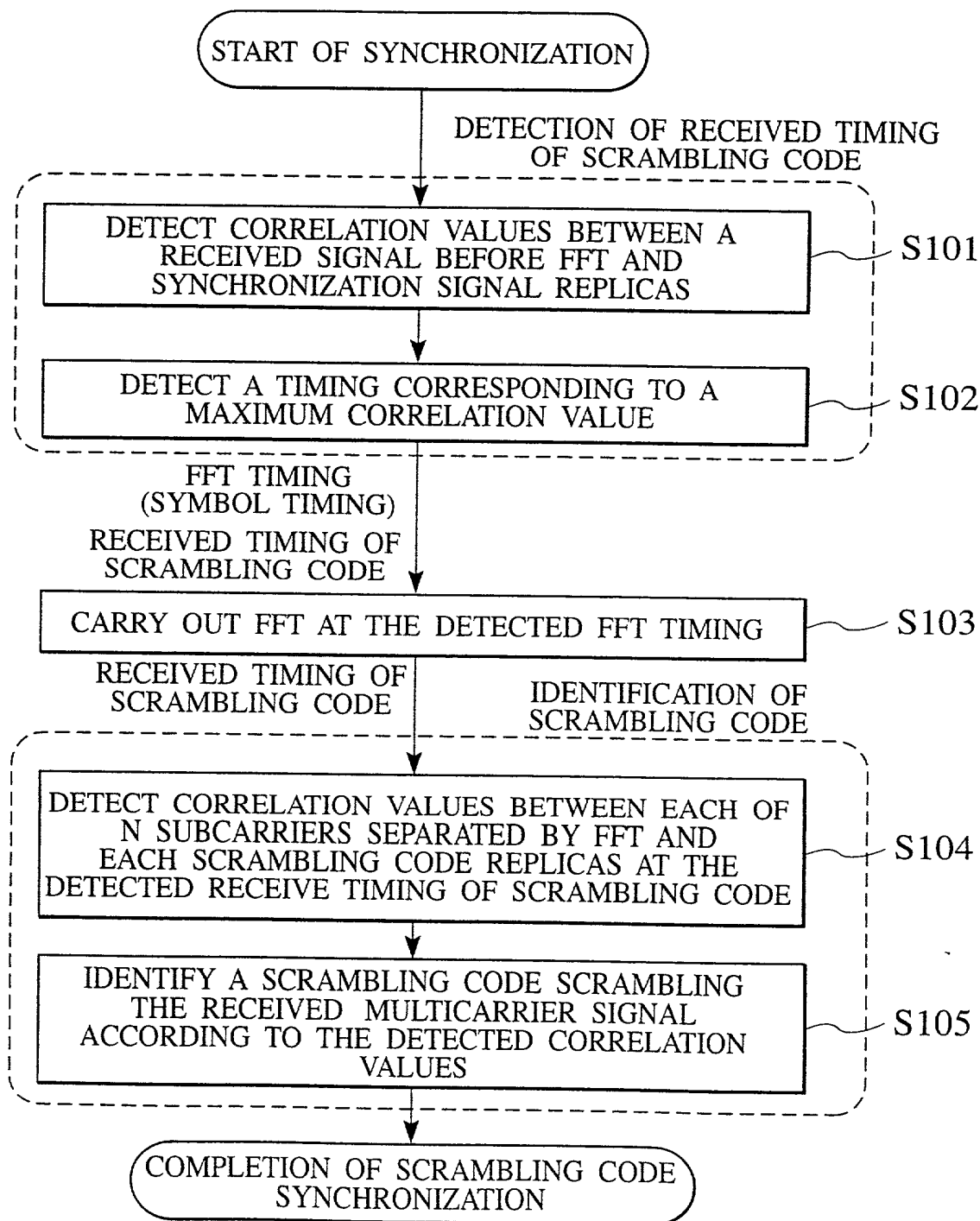
FIG. 11

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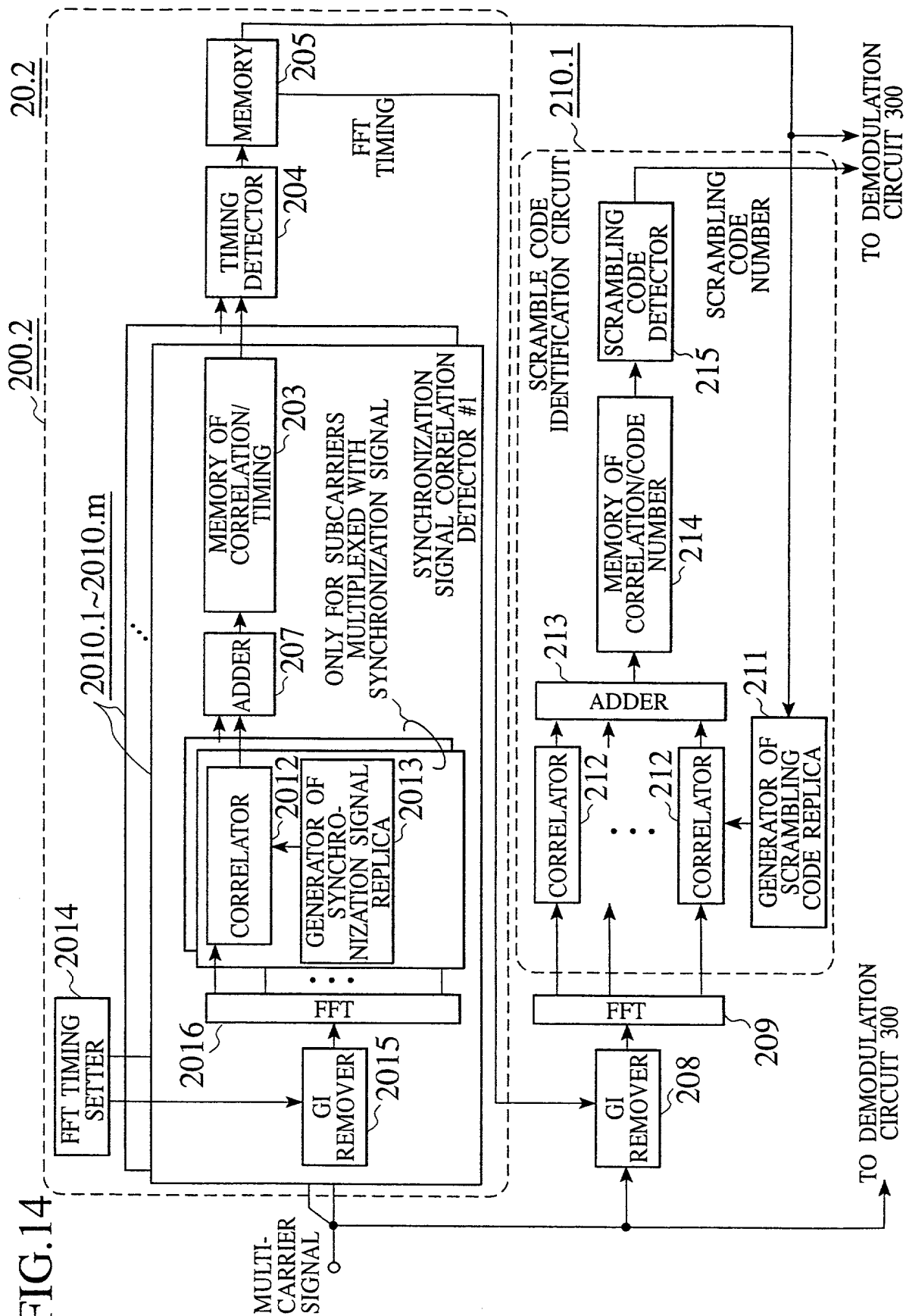
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FIG.13



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FIG. 14



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FIG.15

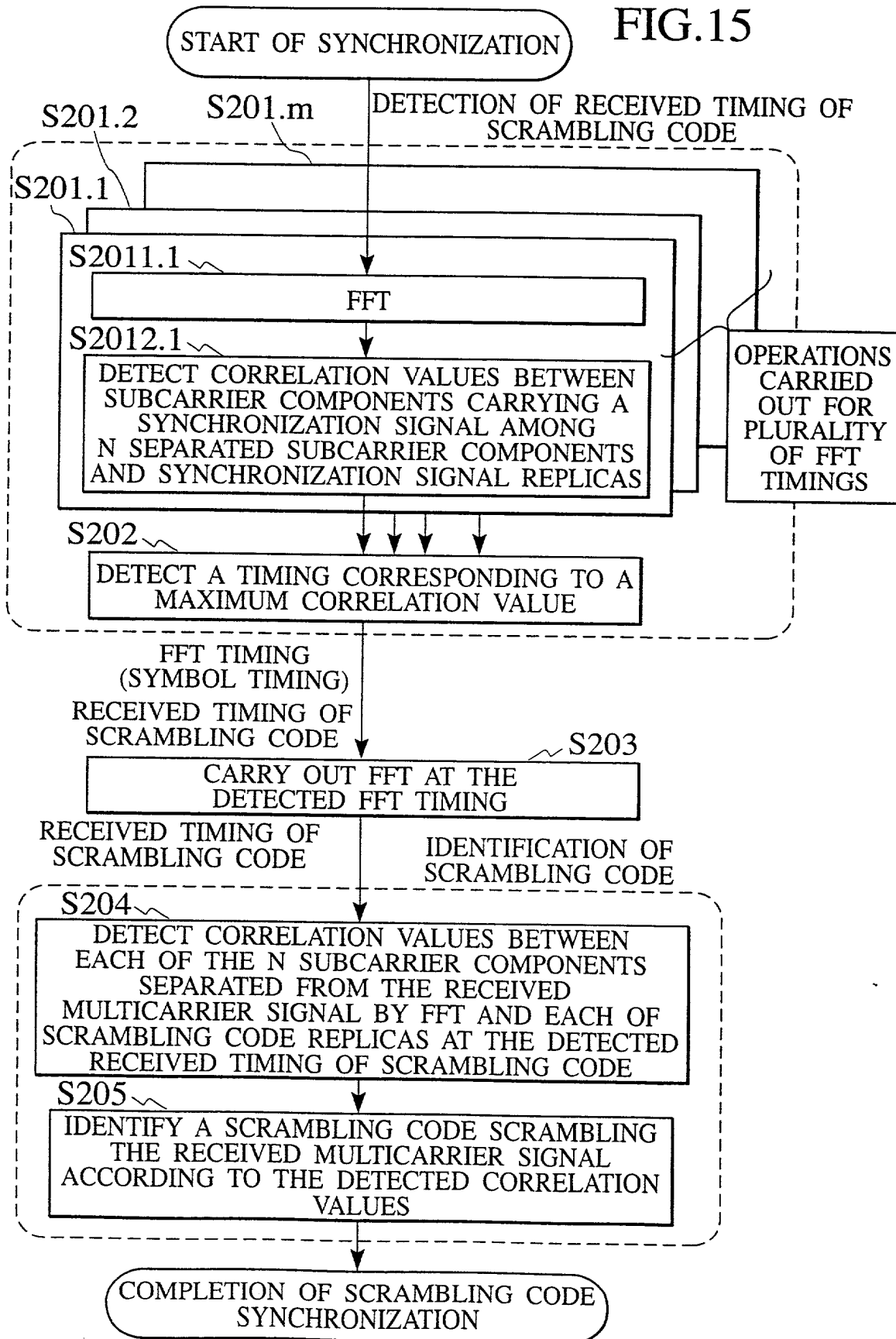
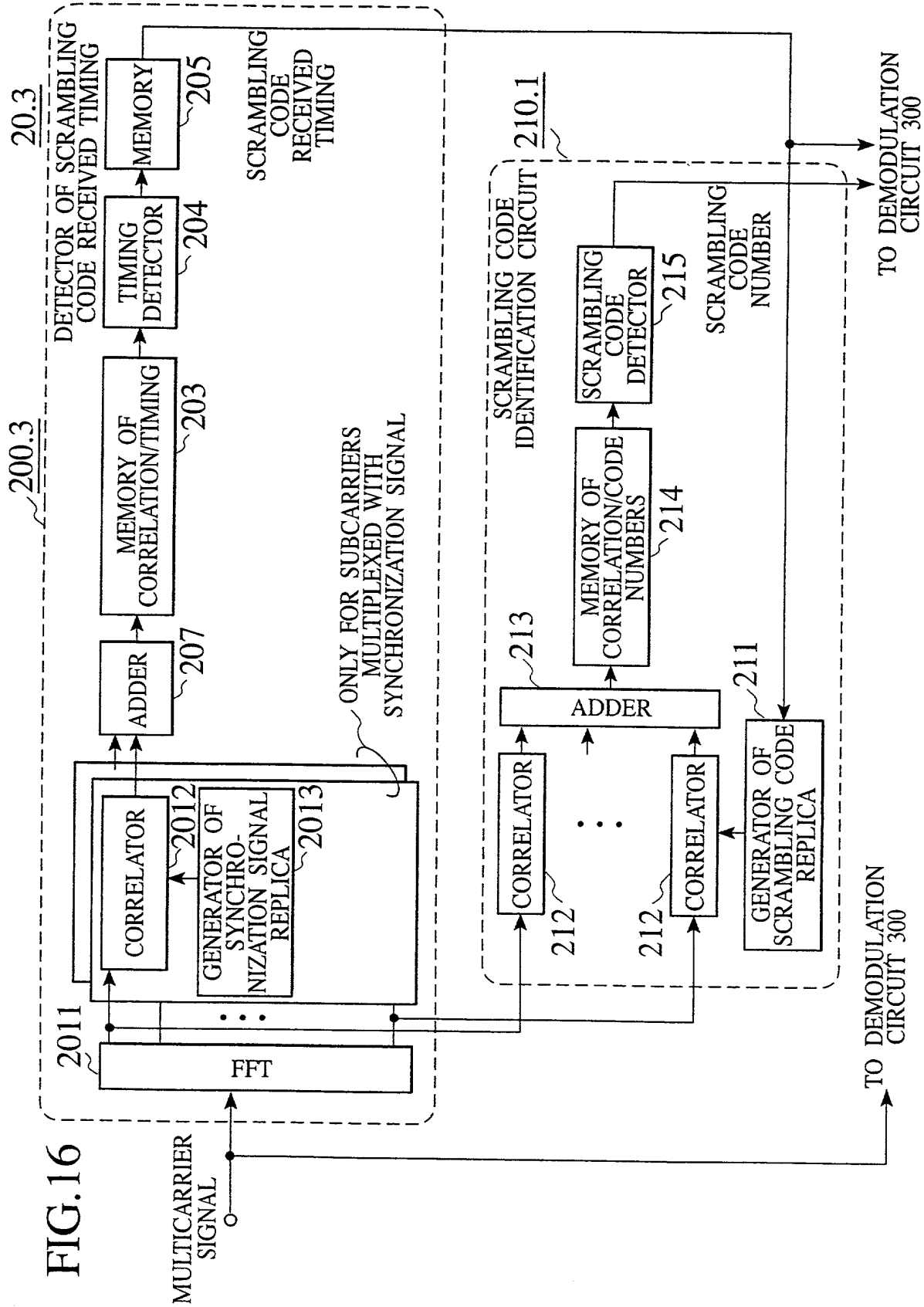


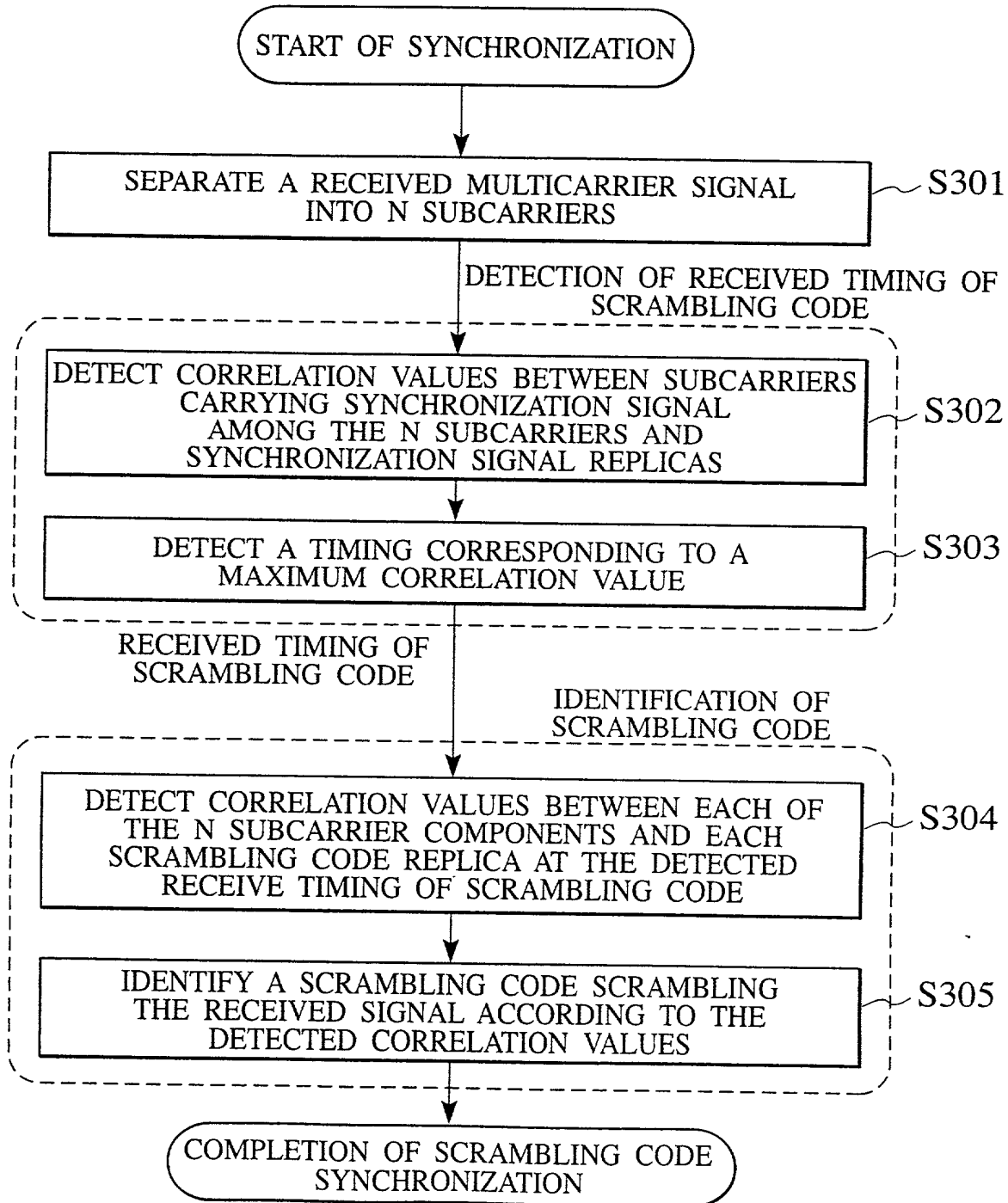
FIG. 15

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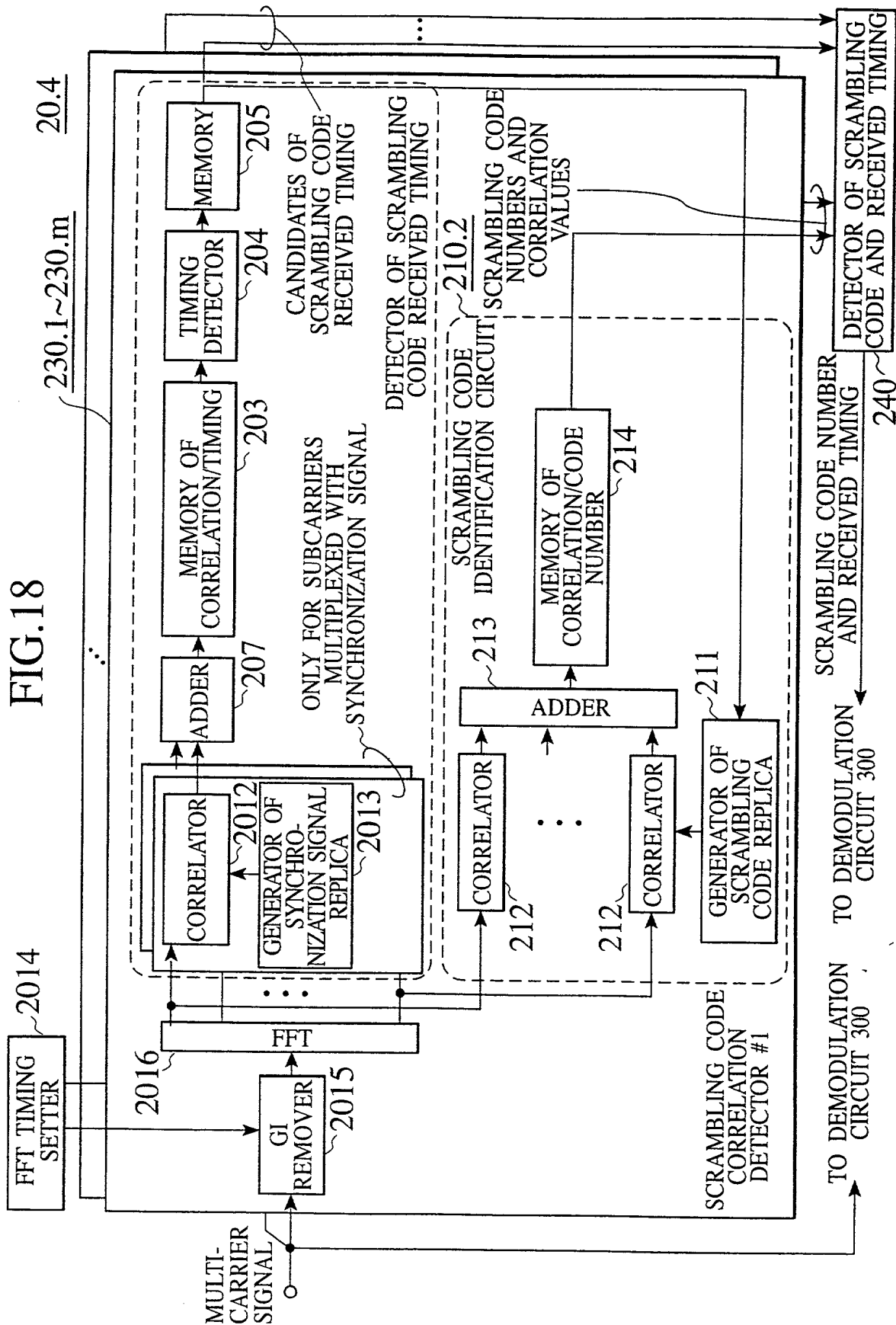


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FIG.17

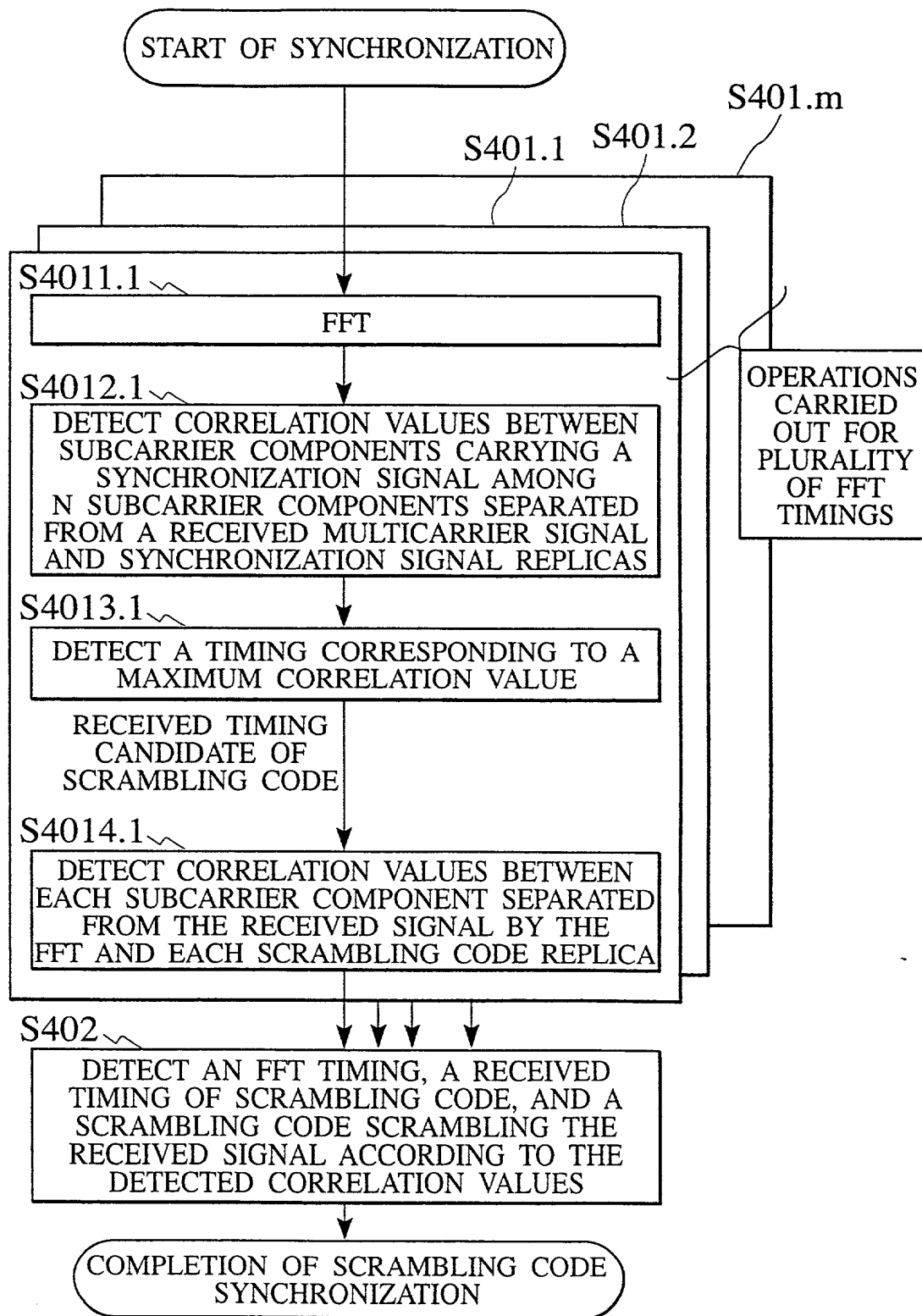


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FIG.19



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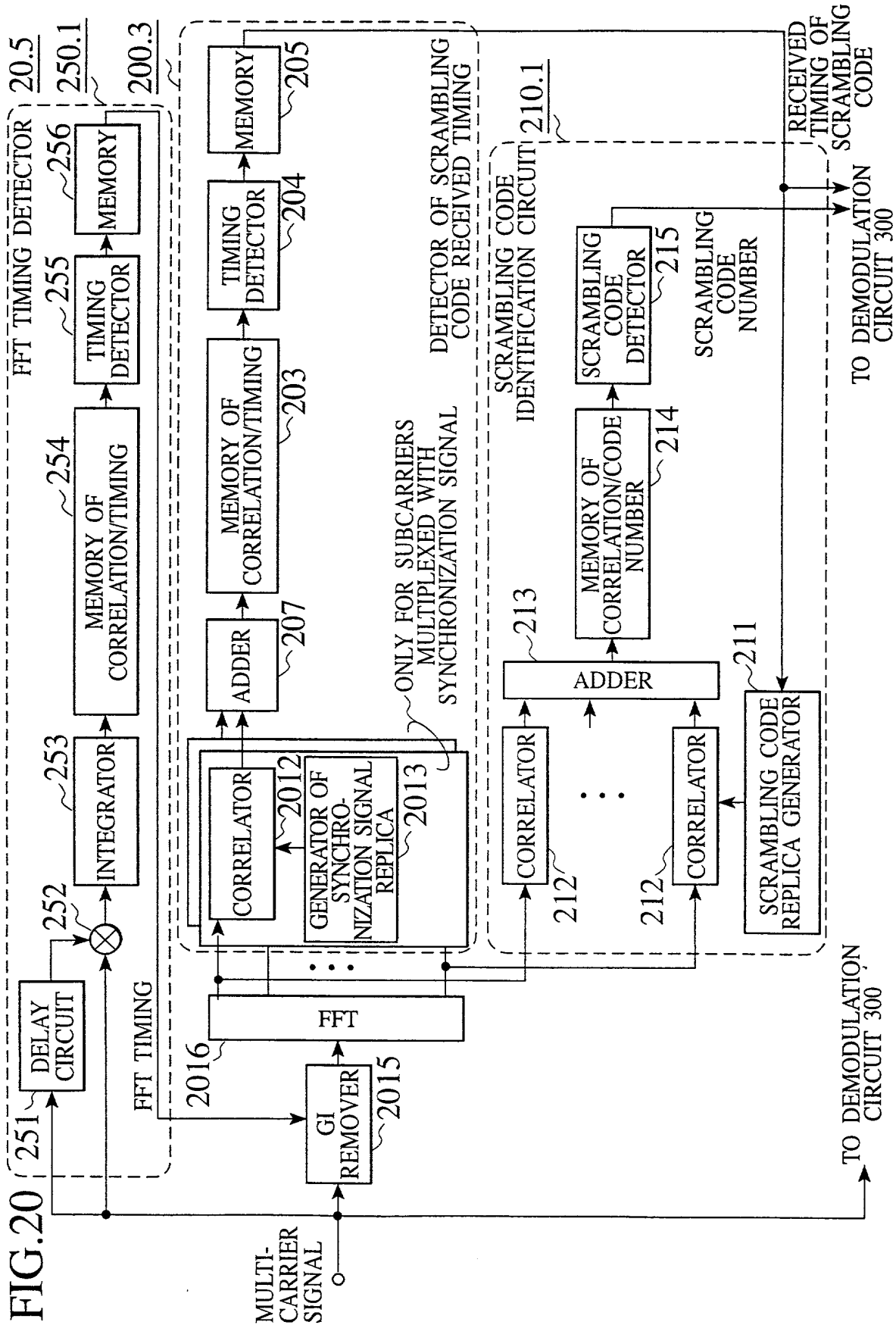
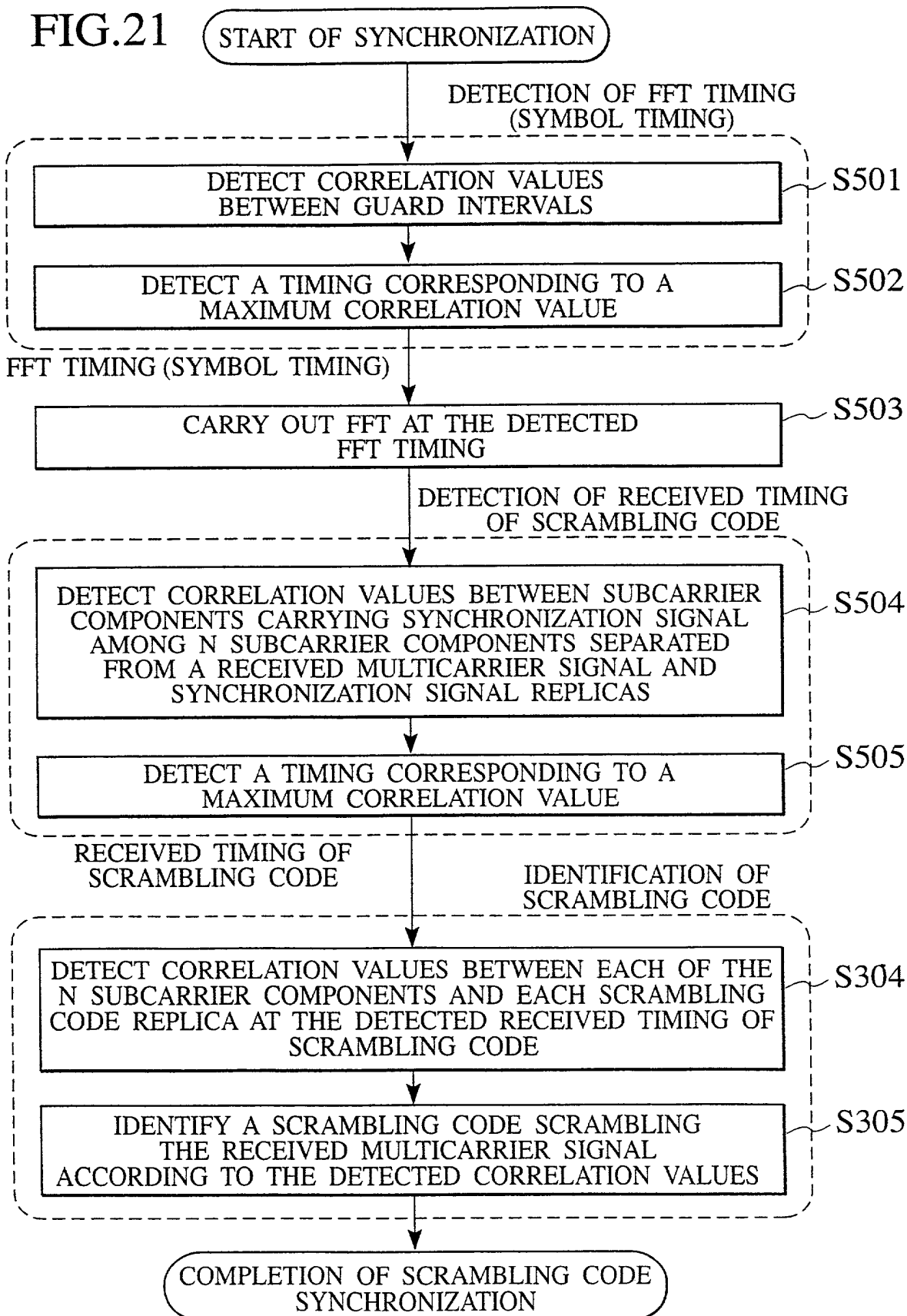


FIG. 20

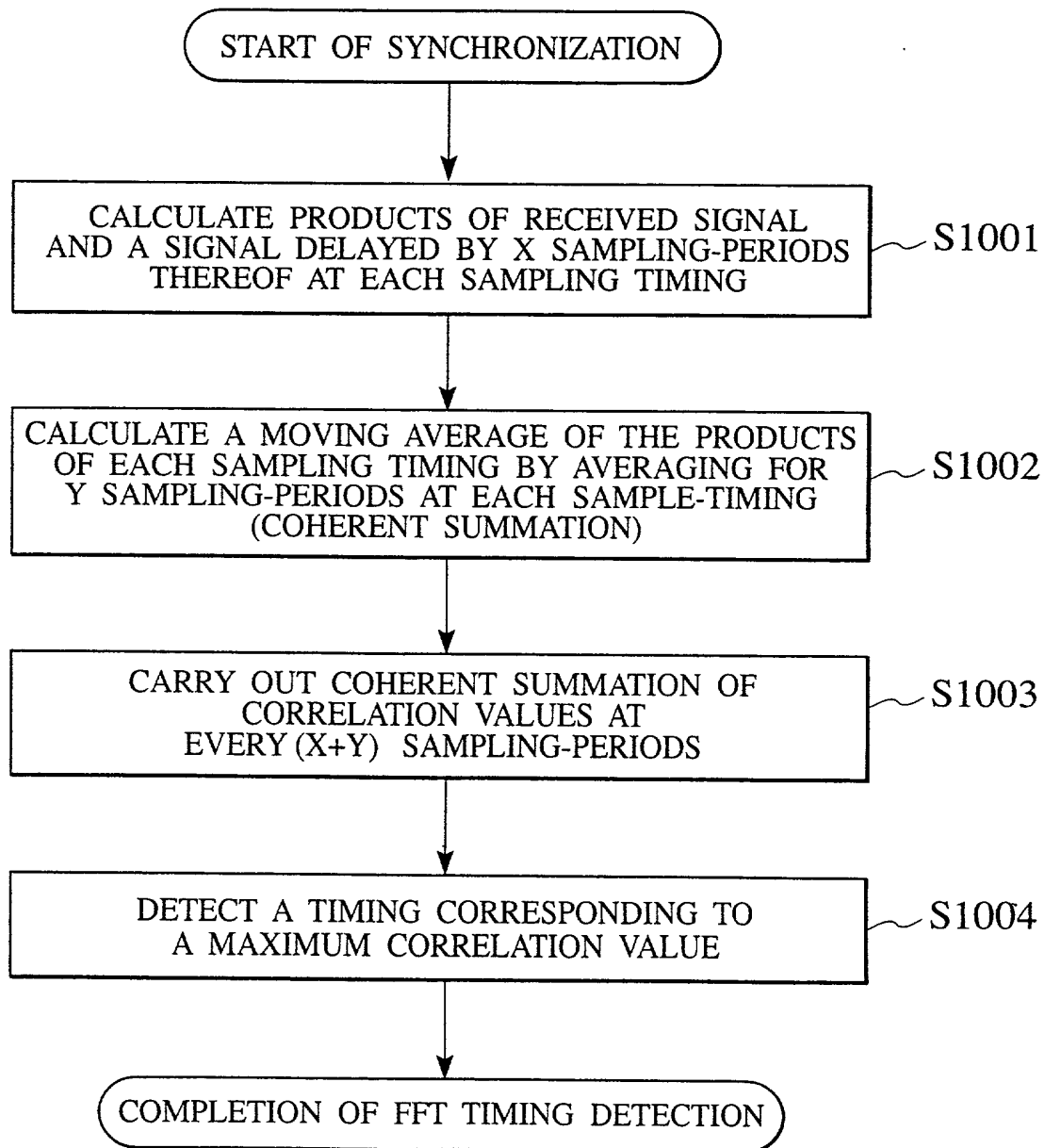
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FIG.21



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FIG.22



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FIG.23

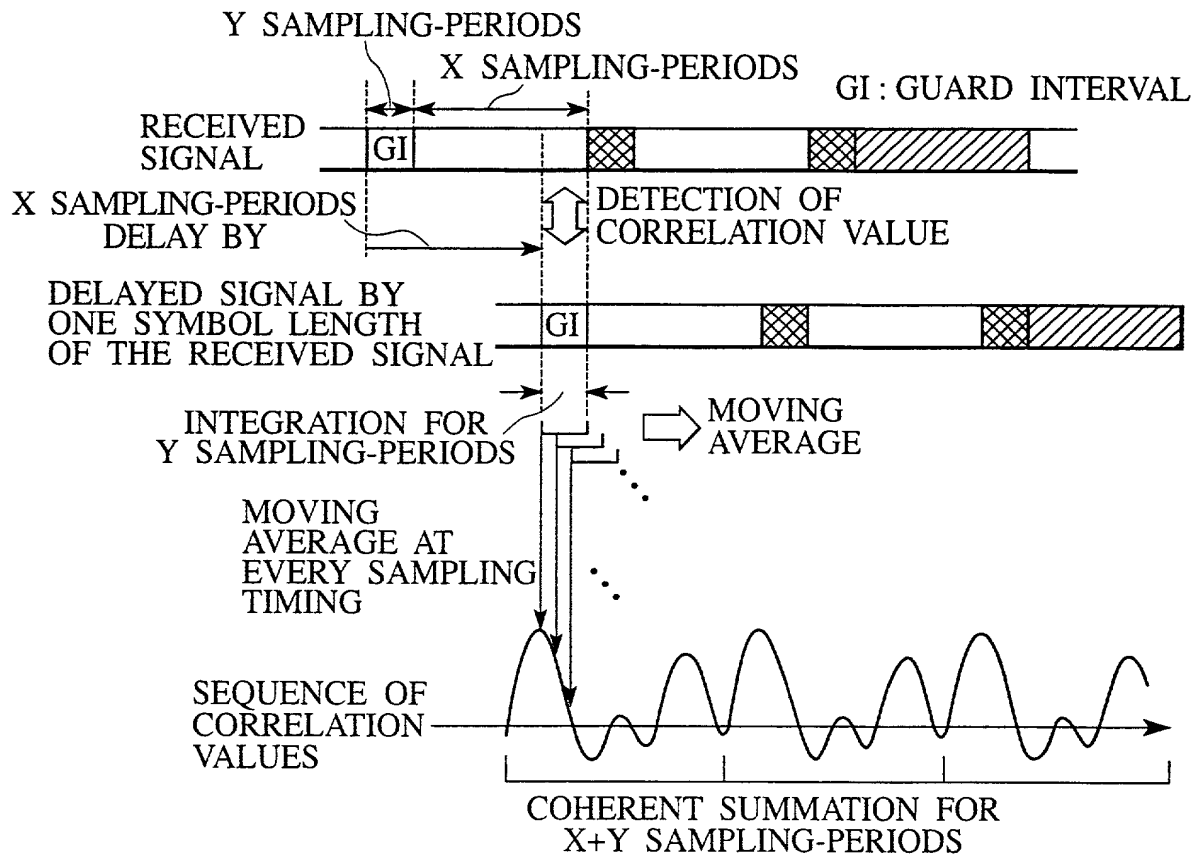
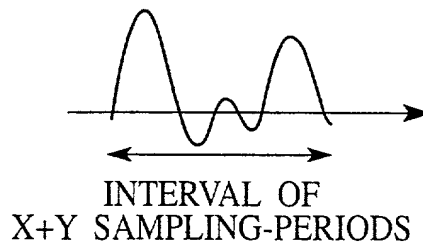
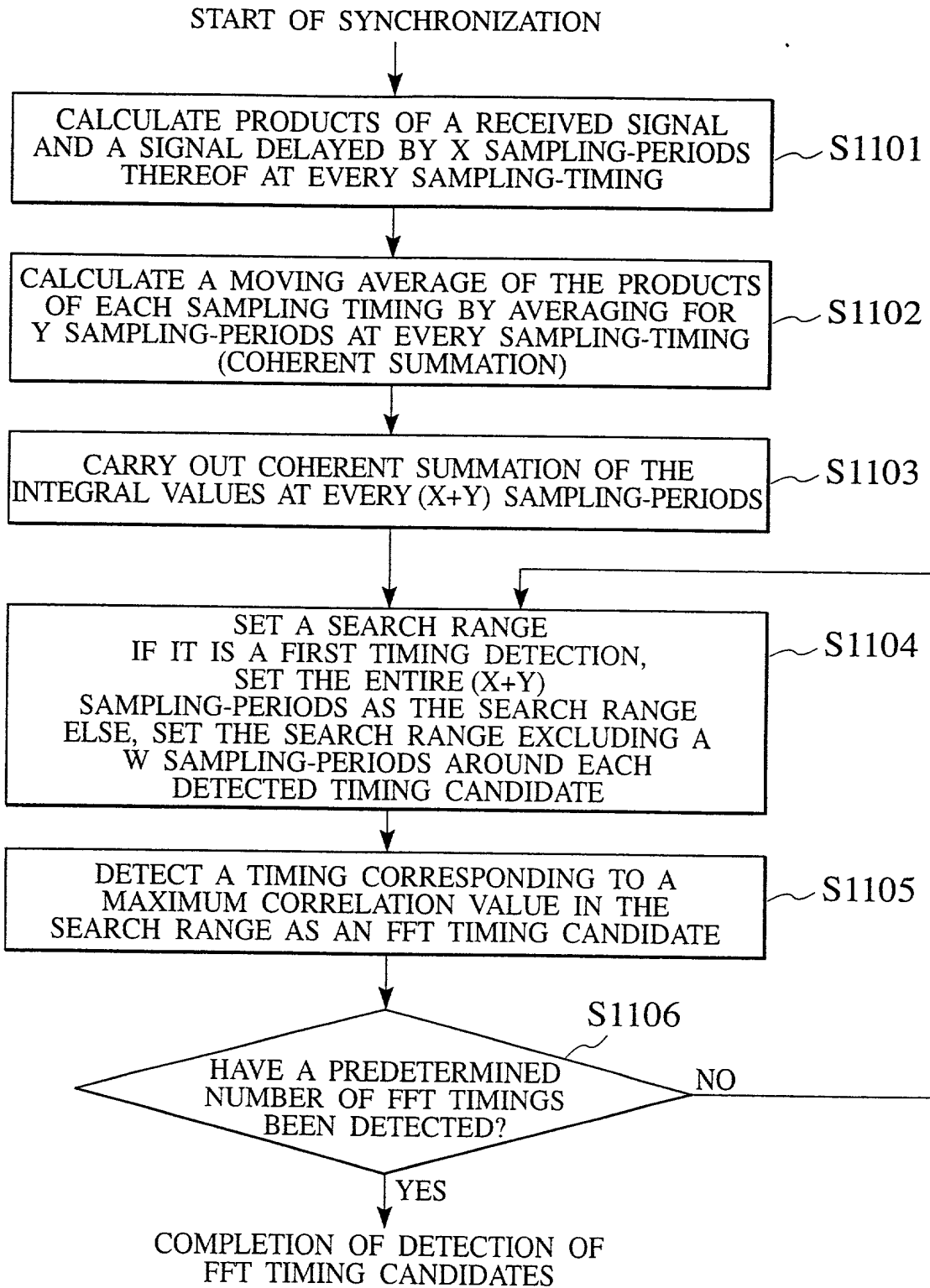


FIG.24



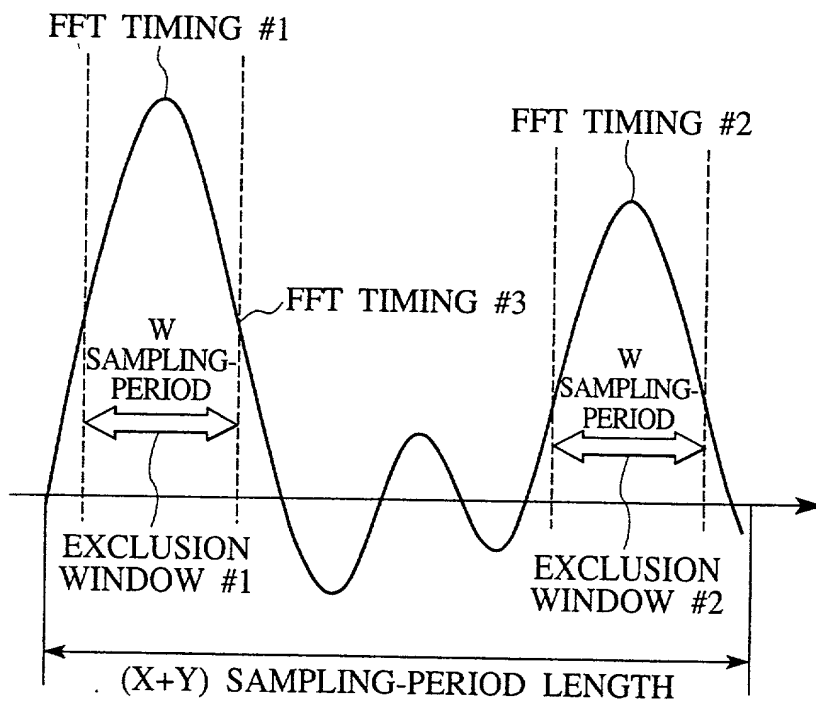
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FIG.26



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FIG.27



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FIG.28

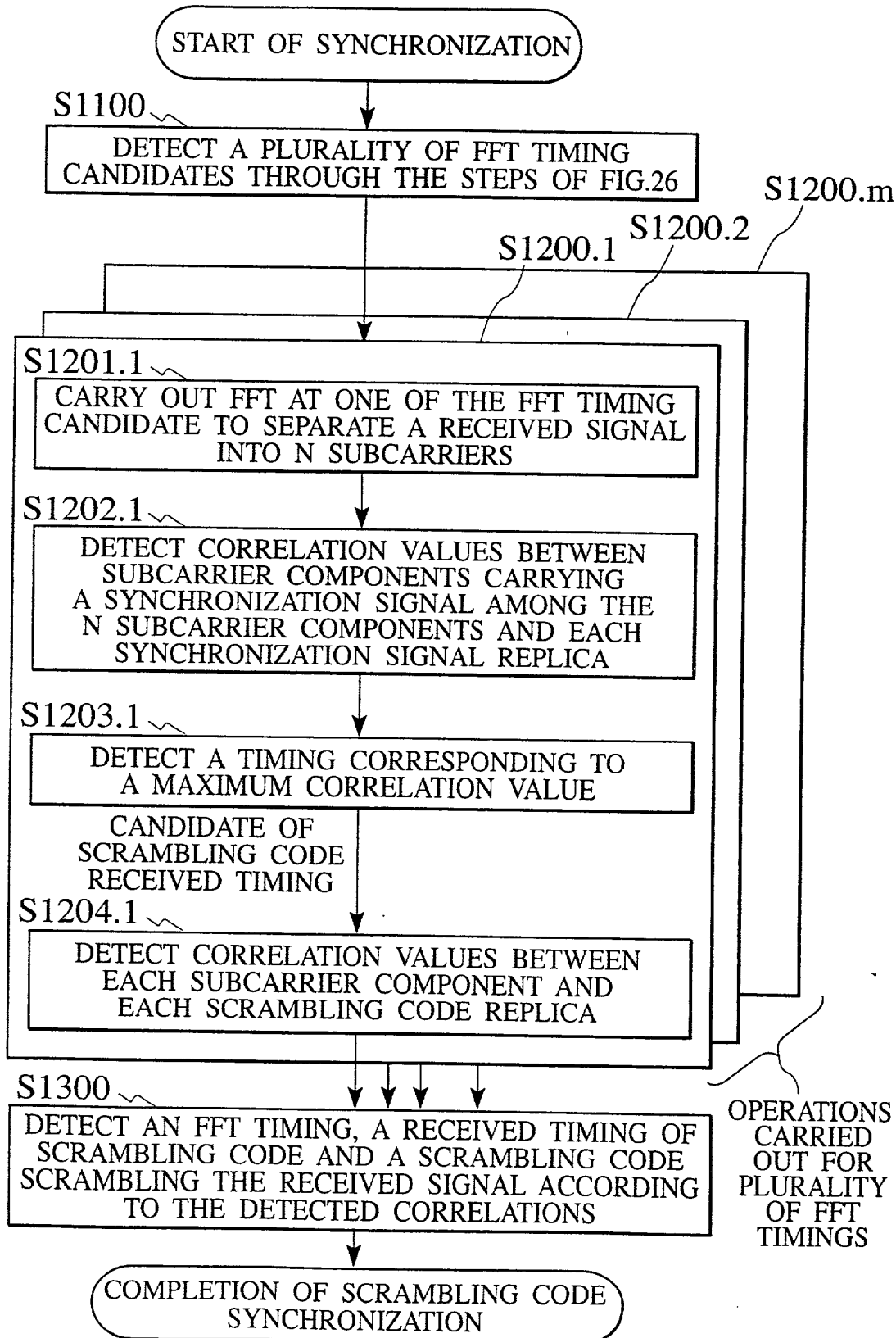
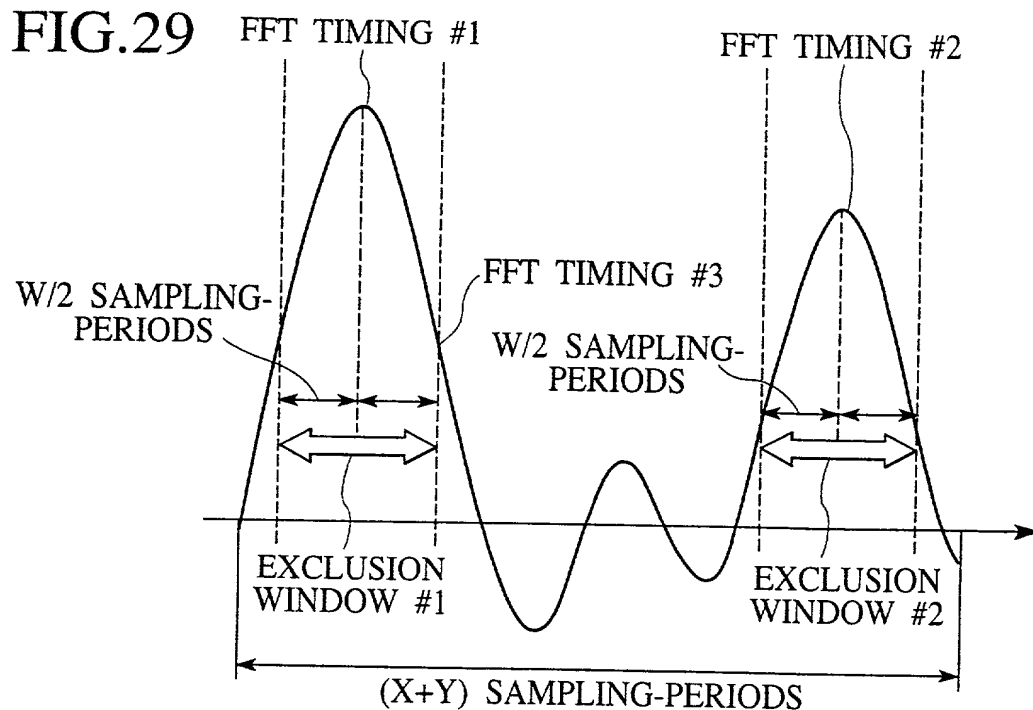
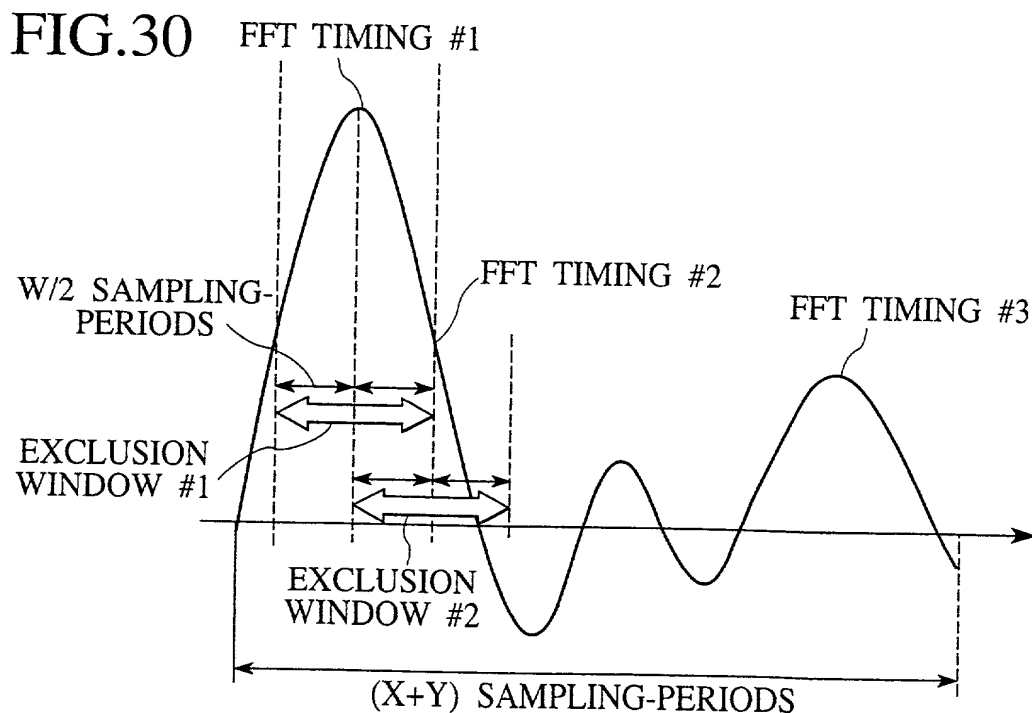


FIG. 28

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AN EXCLUSION WINDOW IS SET BEFORE AND AFTER A DETECTED FFT TIMING BY W/2 SAMPLING PERIODS (EXCLUSION WINDOWS #1 AND #2 ARE NOT OVERLAPPING)

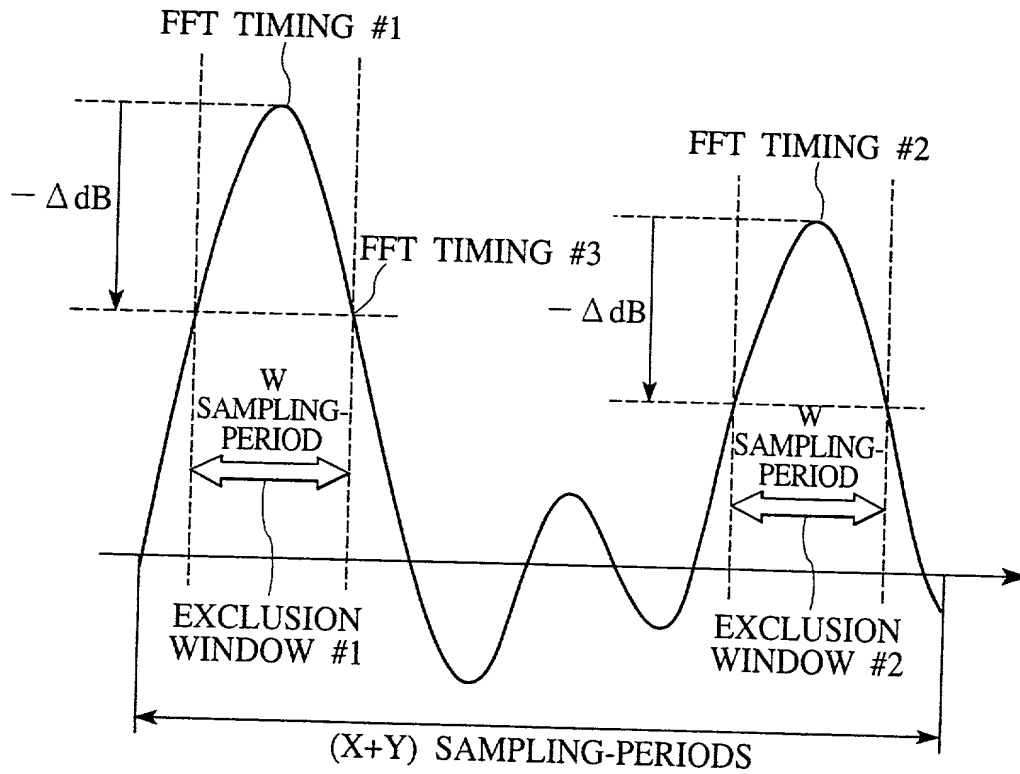


AN EXCLUSION WINDOW IS SET BEFORE AND AFTER A DETECTED FFT TIMING BY W/2 SAMPLING PERIODS (EXCLUSION WINDOWS #1 AND #2 ARE OVERLAPPING)

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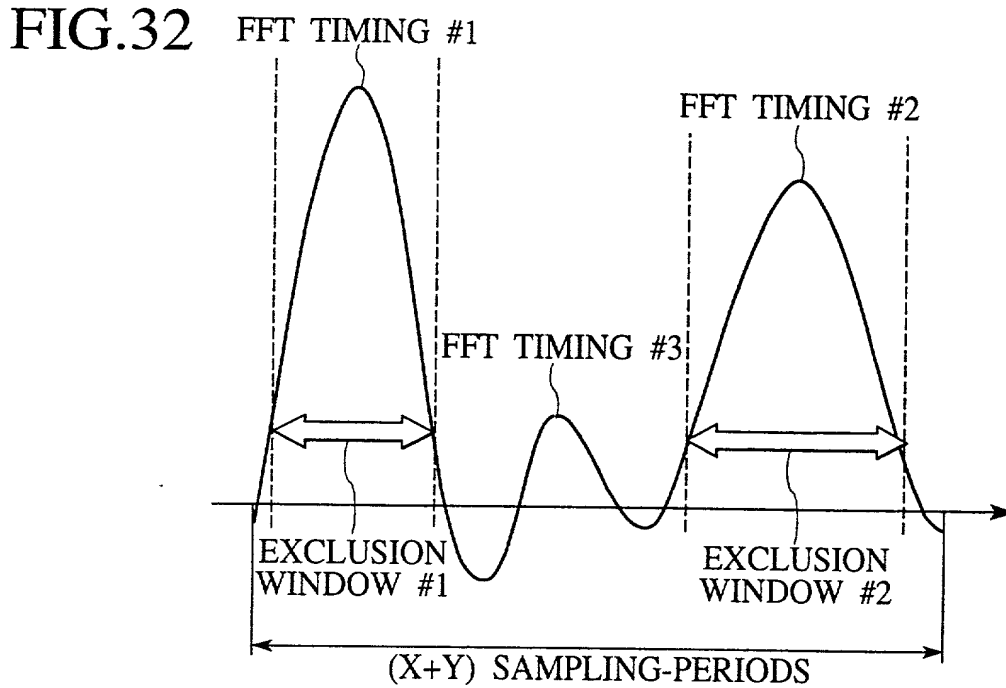
FIG.31



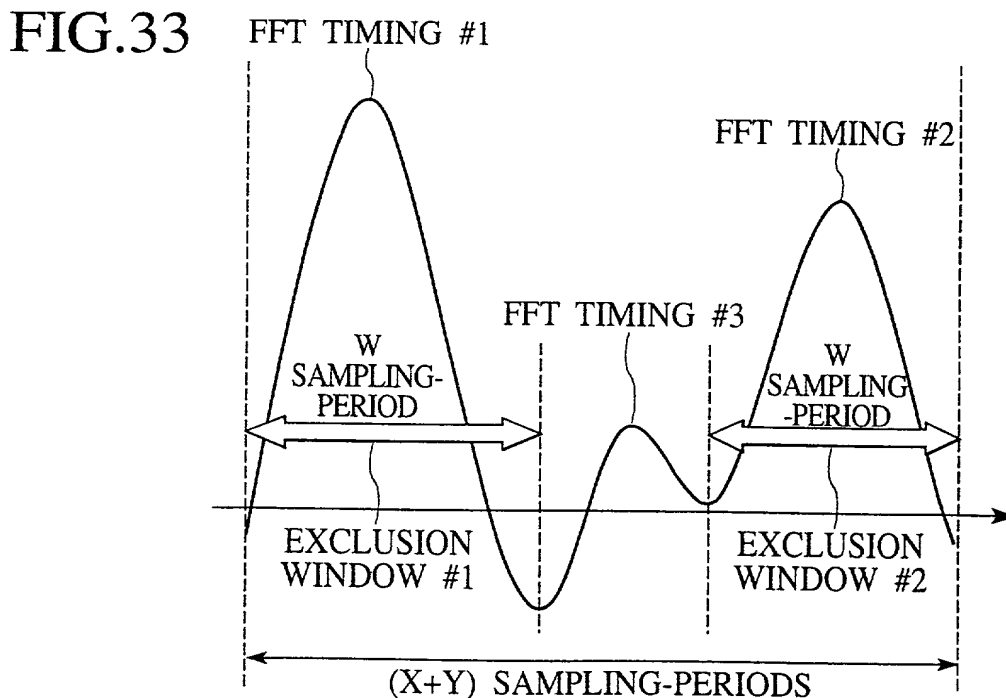
AN EXCLUSION WINDOW IS EXTENDED FROM A DETECTED TIMING TO TWO POINTS EACH HAVING A CORRELATION VALUE ΔdB SMALLER THAN THE CORRELATION VALUE OF DETECTED TIMING

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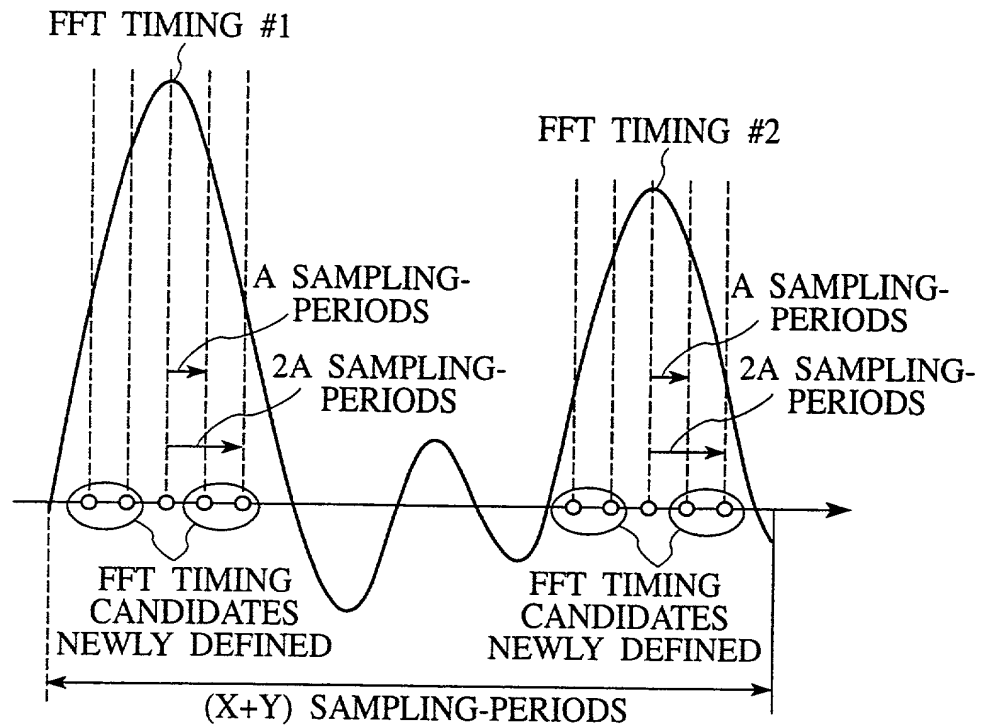
AN EXCLUSION WINDOWS IS NARROWED IF A SEQUENCE OF CORRELATION VALUES INCLINED STEEPLY AND IS WIDENED IF IT INCLINED GENTLY



AN EXCLUSION WINDOWS IS EXTENDED FROM A DETECTED TIMING TO AN INFLECTION POINT AS LONG AS A SEQUENCE OF CORRELATION VALUES DECREASES

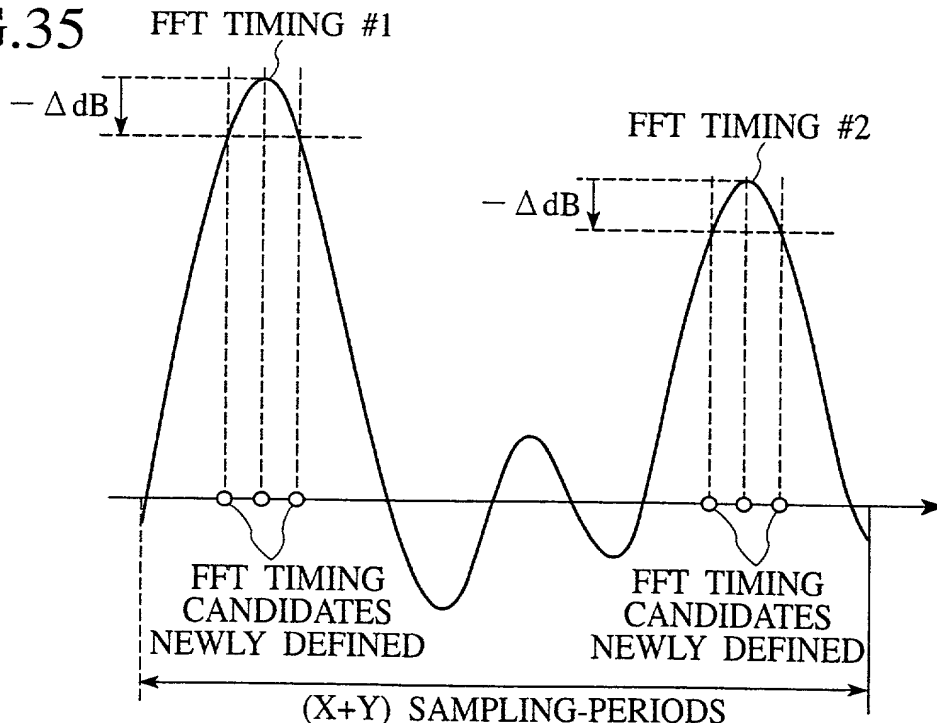
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FIG.34



NEW TIMING CANDIDATES ARE DEFINED AT POINTS $\pm A$ AND $\pm 2A$ SAMPLING-PERIODS AWAY FROM A DETECTED TIMING

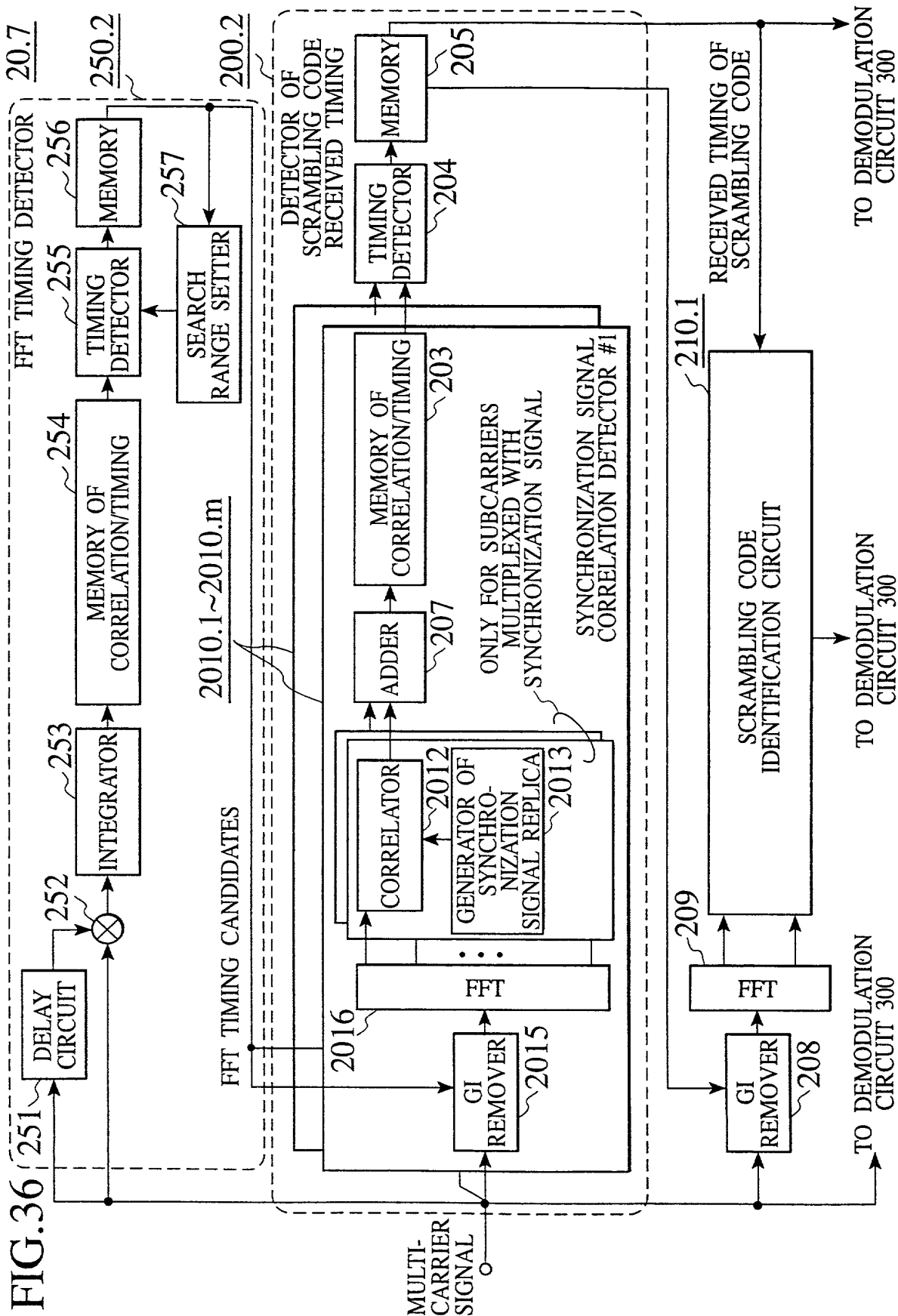
FIG.35



NEW TIMING CANDIDATES ARE DEFINED AT POINTS EACH HAVING A CORRELATION VALUE ΔdB SMALLER THAN THE CORRELATION VALUE OF A DETECTED TIMING CANDIDATE

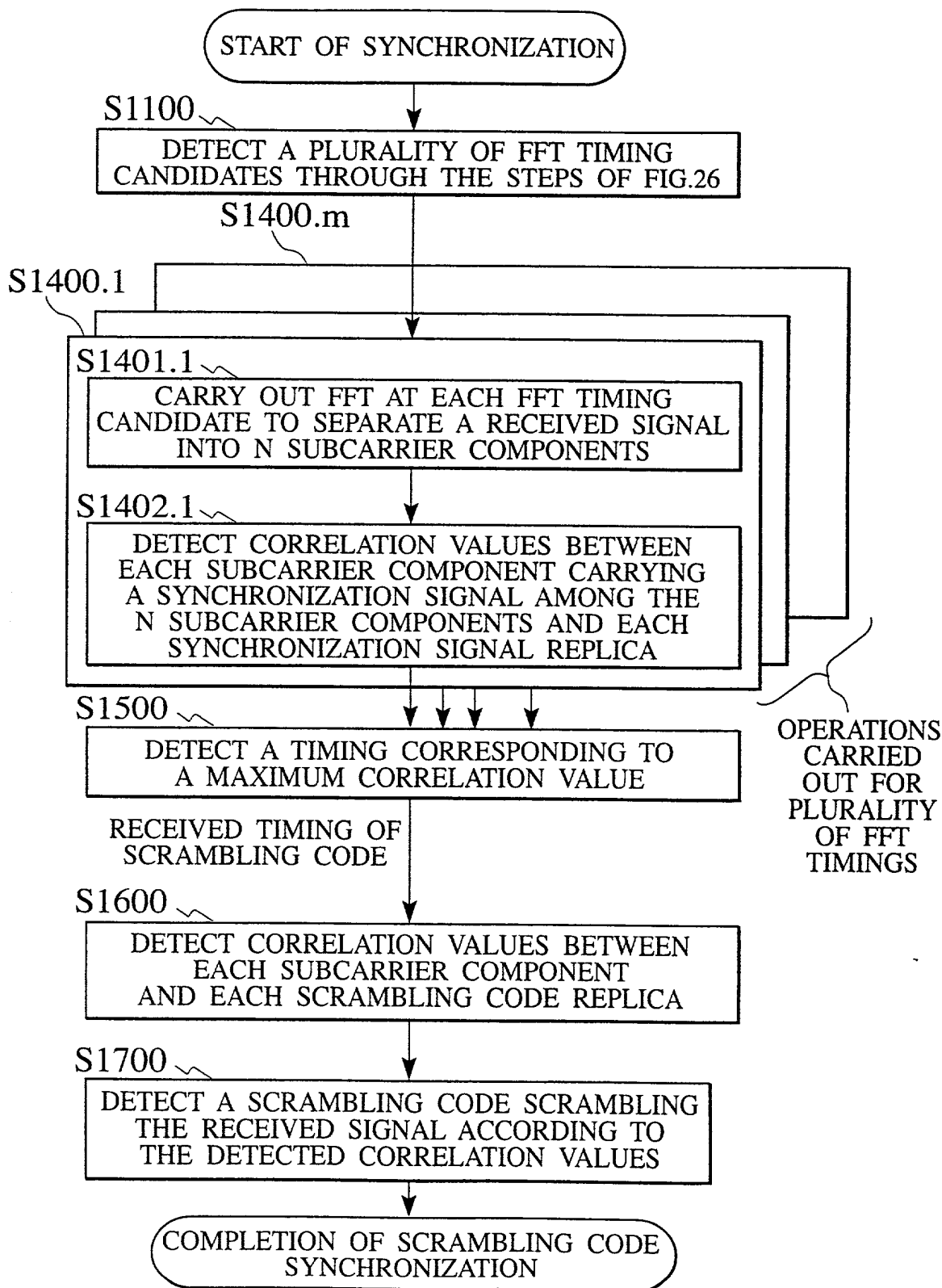
FIG.34

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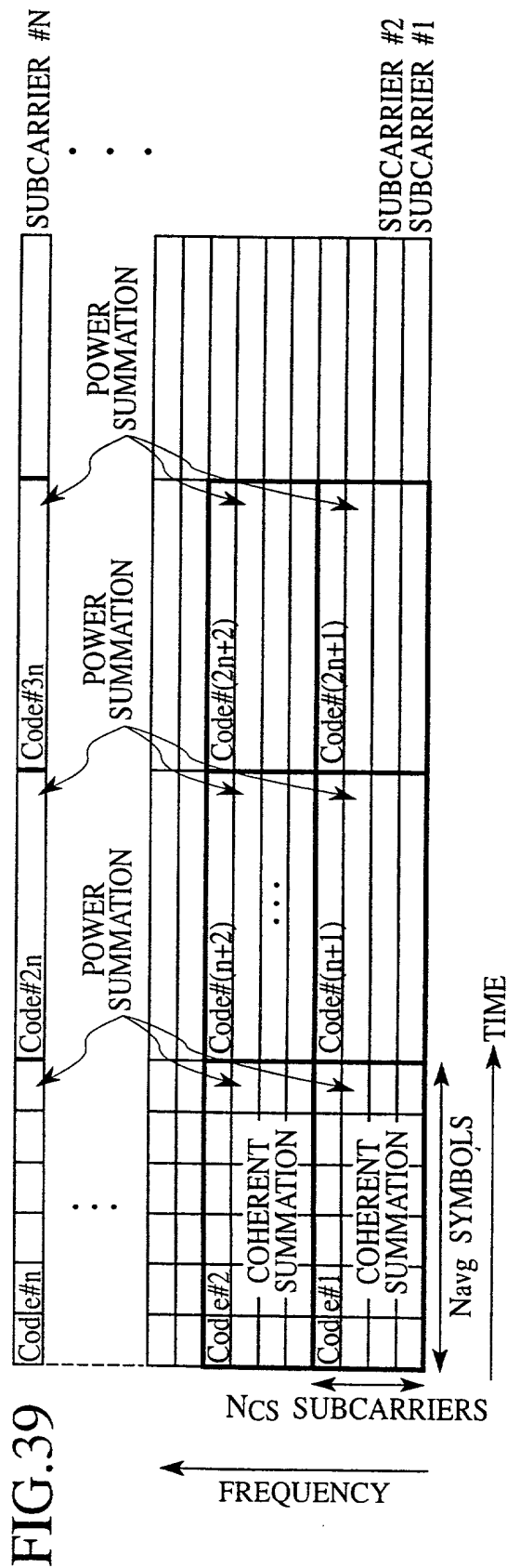
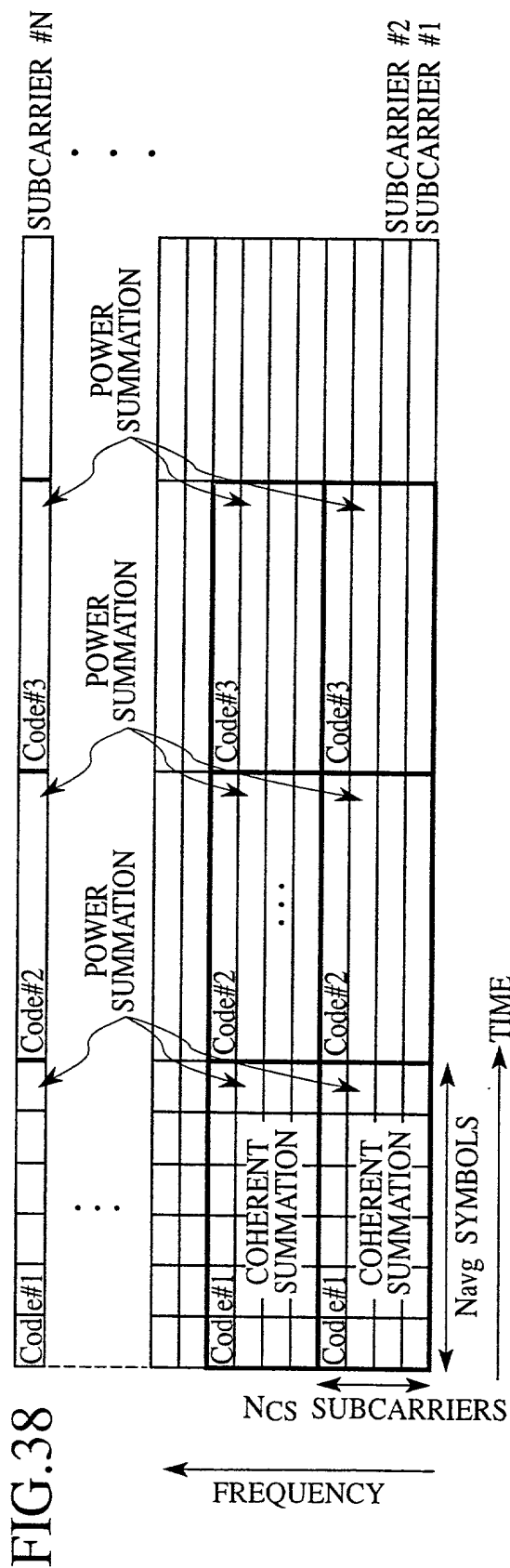
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FIG.37



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FIG.40

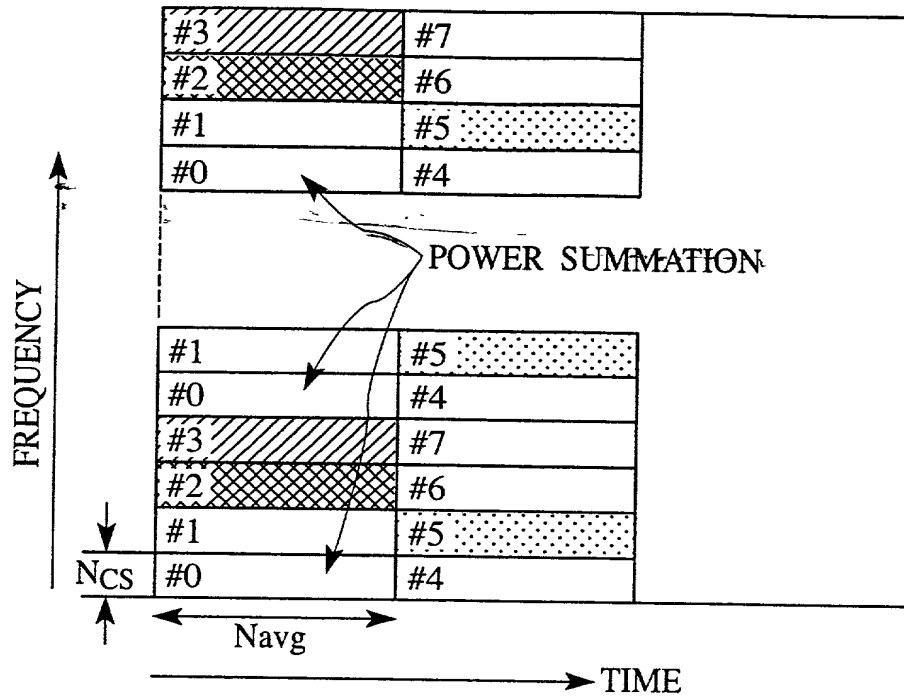


FIG.41

